2016 Green Report



The Harbourview

Honorary Consultant

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THE ECO-FRIENDLY WAY WE SERVE



Table of Contents

Welcome to our 2016 Green Report

 Introduction 1.1 About This Report 1.2 Message from the General Manager 1.3 About The Harbourview 1.4 Green Management Strategy and System 1.5 Goals and Plans 	P. 04
2.1 Energy Saving 2.2 Water Conservation 2.3 Waste Minimisation 2.4 GHG Emissions	P. 06-18 P. 07-12 P. 13-14 P. 15-17 P. 17-18
3. Green Awareness 3.1 Staff Engagement 3.2 Guest Engagement	P. 19-21 P. 19-20 P. 21
4. Partnership	P. 22
5. Internship	P. 22-23
6. Environmental and Social Responsibilities	P. 24-25





1.1 About This Report

The Harbourview cares about the environment. Concerning the phenomenon of accelerated global warming and the increased pressure on natural resources, we place priority on environmental protection in our hospitality management and aim to provide quality accommodation and dining services to our guests in an eco-friendly manner. To review our environmental practices and make continuous improvement, The Harbourview has published a green report about its environmental performance annually since 2015. This green report illustrates our environmental approaches and accomplishments for the year 2016.





For more details regarding our eco-hospitality management, please visit our website: https://theharbourview.com.hk/en/eco-hospitality

Your feedback is important to us. We greatly appreciate and value your comments on our environmental performance. If you have any feedback, please feel free to send us a message via our online "Talk to us" platform. Your ideas can help us make continuous improvements.

	Talk to us
Name	
Emoil	
Booking Nun	nber / Check-in Date
Message	
☐ I would like to promotions o	o receive the latest information regardin and special offers of the Harbourview.
	SEND MESSAGE



1.2 Message from the General Manager

As environmental responsibility is widely considered to be what every person should take, an increasing number of organisations Harbourview, dedicated includina The are to environmental sustainability approaches into their own practice. As such, we established our "Internal Environmental Friendly Committee (IEFC)" and an audit team in 2015, which are formed by staff from different departments and of different levels, to monitor the environmental performance of every department. This is to help ensure that, in our daily operation, we have fully complied with our environmentally friendly principles and hence achieve continuous improvements.

To fulfill our environmental responsibility and achieve our environmental protection aims, we firmly believe that the environmental awareness of staff and guests plays a fundamental role. Thence, enhancing our staff's environmental awareness is the core value of The Harbourview's environmental policy. We have collaborated with The Education University of Hong Kong (EdUHK) since 2015 to adopt an academic approach to our environmental management. By adopting this approach, we are devoted to conveying green messages to society via not only our staff but also our guests. This is the contribution we hope to make for our society.

In this Green Report, we are pleased to highlight our significant improvements as stated below:

- Remarkable improvement in the efficient consumption of utilities by adopting strategic utility efficiency programmes
- Participate in various environmental schemes to fulfil our environmental and social responsibilities

We understand that there is still room for improvement in environmental protection aspects. Therefore, we have set different goals and objectives to achieve ongoing amelioration. We will continue to strengthen the environmental awareness of our staff as part of our environmental and social responsibilities in 2017. In the coming years, we will strive our best to achieve our vision to become an eco-friendly hospitality service provider.





1.3 About The Harbourview

The Harbourview, affiliated to the Chinese YMCA of Hong Kong (CYMCA), provides accommodation and dining services to travellers from around the world. We have a long-standing commitment to caring for the environment and to serving our guests with quality services in an eco-friendly manner. With a vision to being an eco-friendly hospitality service provider, The Harbourview has maintained a collaborative partnership with The Education University of Hong Kong (EdUHK) since 2015 to continuously improve our effectiveness in regard to environmental management.

1.4 Green Management Strategy and System

In collaboration with EdUHK, The Harbourview has developed and refined 6 green policies. These policies serve as principal guidelines for our environmental measures. Furthermore, in March 2015, The Harbourview formed an "Internal Environmental Friendly Committee (IEFC)", which is under the supervision of our General Manager, to be in charge of the regular establishment of short-term environmental goals and implementation plans for proposed environmental measures, evaluation and consultation on current environmental management strategies, and future planning of advanced environmental policies. Besides, to monitor the effectiveness of our current environmental practices, an "Internal Environmental Audit Team" was also established in September 2015.

6 Green Policies

1

Comply with relevant environmental legislation and take a proactive approach to future requirements and obligations.

2

Seek to minimise wastage and maximise the efficient use of materials and resources. 3

Develop and manage processes to ensure that environmental factors are considered during each stage of planning and implementation.

4

Work with suppliers who have compatible policies for managing their impact on the environment.

5

Regularly conduct reviews to ensure that operations remain compliant with the policy, and set or revise targets to ensure continual improvement. 6

Carry out regular internal programmes of education and training to enhance environmental awareness among staff members.





In the coming years, The Harbourview is going to implement various green practices regarding the following five environmental goals.

1

Enhance environmental awareness among staff and guests 2

Reduce the energy consumption of utilities

Reduce waste production and carry out waste recycling

4

Reduce greenhouse gas emissions 5

Minimise pollution

Currently, we have formulated five environmental measures to improve our environmental performance.

- Recycle used light tubes
 and bulbs
- 2. Reduce the use of umbrella plastic bags through recycling measures
- 3. Launch a "Plastic Water Bottles Recycling Design Competition" to encourage our staff to reduce waste and enhance staff's environmental awareness

- 4. Install an oil-free chiller to reduce electricity consumption
- 5. Join the "Energy Saving Charter" and "4Ts Charter"





The Harbourview understands that it is important to carefully monitor our environmental performance so that we can make continuous improvements in the future. We evaluate our environmental performance according to four different dimensions, namely Energy Saving, Water Conservation, Waste Reduction and Greenhouse Gas (GHG) Emissions.

4 Dimensions

Energy Saving Water Conservation

Waste Reduction GHG Emissions



2.1 Energy Saving



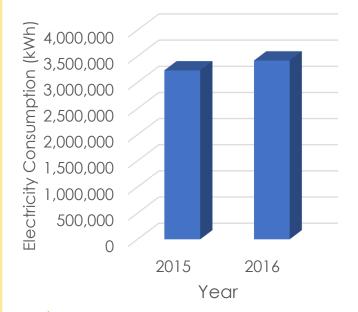
With increasing consumption of energy, a huge amount of greenhouse gases is released into the atmosphere due to combustion. Global warming is consequently being artificially accelerated. To protect our environment from air pollution and environmental degradation, The Harbourview pays keen attention to energy saving and puts a lot of effort into reducing our energy consumption constantly. Currently, the major types of energy used in The Harbourview are electricity and gas.

1. Electricity

Overview of Electricity Consumption

Annual Electricity Consumption

2015	3,231,138 kWh
2016	3,419,804 kWh



Our annual total electricity consumption in 2016 was 3,419,804 kWh, while that of 2015 was 3,231,138 kWh. Our electricity consumption in 2016 increased by 188,666 kWh, i.e. 5.84% when compared to 2015. Although various energy-saving practices have been implemented to reduce electricity consumption, challenges still remain. Efficient electricity demand management is required in the future.

Continue >

Highlights of 2016

+5.84%

Our annual electricity consumption grew by approximately 6% in 2016 when compared to 2015.

-19.22%

Our annual gas consumption reduced by around 19 % in 2016 when compared to 2015.

-81.06%*

Our monthly average gas consumption of boilers in the period of August to December 2016 dramatically dropped by 81% when compared to the period of January to July 2016.

*For details please refer to page 11.



What caused an increase in our electricity consumption?



Referring to the table on the right, in comparison with 2015, 2016 electricity consumption of HVAC and Hot Water Systems & Guestrooms and Food & Beverage increased by 8.03% and 15.35% respectively.

To figure out the reasons for higher electricity consumption in 2016, The Harbourview conducted analysis of our 2016 electricity consumption pattern. The result shows that the increase in electricity consumption was mainly due to a higher demand for airconditioning in summer and the purchase of new electric cooking appliances.



The Harbourview has been using a multi-function heat pump chiller for waste heat recovery since August 2016 in order to reduce gas consumption. This has further increased the use of electricity.



As for the electricity consumption increase in Food & Beverage, it was mainly because new electric cooking appliances were purchased and in use in 2016 to improve dish quality and variety.



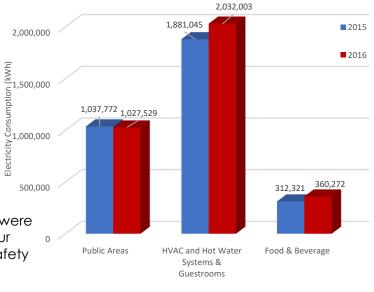
Furthermore, new refrigerators were added in the kitchen of Harbour Restaurant to enhance food safety and quality. This has further increased the electricity use.

Breakdown of Electricity Consumption by End-uses

Electricity Consumption (in kWh)	2015	2016	Variance
Public Areas	1,037,772	1,027,529	-0.99%
HVAC and Hot Water Systems & Guestrooms	1,881,045	2,032,003	+8.03%
Food & Beverage	312,321	360,272	+15.35%
Total Consumption	3,231,138	3,419,804	+5.84%

Breakdown of Electricity Consumption by End-uses

2,500,000



End-use





According to the data provided by the Hong Kong Observatory, The duration of Very Hot Weather Warning issued in 2016 was 111 hours more than that in 2015. A positive relationship is shown between temperature and electricity use in regard to air-conditioning. As a result, the electricity consumption for air-conditioning increased in 2016.

Very Hot Weather Warning Issued in 2015 and 2016 (Number of Hours)

Year	Very Hot Weather Warning Issued (Number of Hours)
2015	864
2016	975

Information derived from the Hong Kong Observatory*.

*Hong Kong Observatory (2016). Warning & Signal Database. Retrieved from https://www.hko.gov.hk/en/cis/warndb.htm

Electricitysaving Practices at The Harbourview



Starting from 2014, The Harbourview has carried out various electricity-saving practices in order to minimise electricity consumption.





1.Solar Energy

In March 2014, The Harbourview installed a solar panel on the rooftop so that we could power our rooftop lighting using solar energy.

Continue >

Electricitysaving Practices at The Harbourview







2.Roof Garden

To reduce the electricity use by air-conditioning, The Harbourview has developed a roof garden to reduce heat absorption in building material. It serves as a tool for regulating temperature. Besides, a small-scale rooftop organic farm has also been set up in our roof garden.



3. LED Lights

Since April 2015, we have gradually replaced Compact Fluorescent Lamps with LED lights in our guestrooms from the 6 - 10/F. The replacement has saved over 50% of electricity usage for lighting per floor daily.

4. Double Glazing

The Harbourview has replaced the windows in guestrooms on the 20 - 21/F with double glazing in 2016 in order to reduce electricity consumption by air-conditioning and heating. The space between the two panes of glass can help to slow down heat transfer. This can help to save energy and provide a quieter environment for our guests.



2. Gas

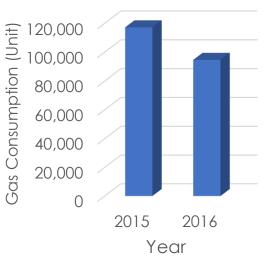
Overview of Gas Consumption

Annual Gas Consumption

2015	117,177 units
2016	94,650 units



Our annual total gas consumption in 2016 was 94,650 units, while that in 2015 was 117,177 units. In comparison to 2015, our gas consumption in 2016 reduced by 22,527 units, representing 19.22%.



Breakdown of Gas Consumption

<u>Breakdown of Gas</u> Consumption By End-uses



Referring to the table on the right, in comparison with 2015, our gas consumption in 2016 of water boilers and cooking appliances dropped by 33.53% and 4.7% respectively.

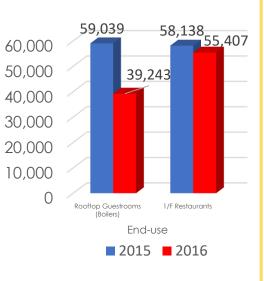
Gas Consumption (in unit)	2015	2016	Variance
Rooftop Guestrooms (Boilers)	59,039	39,243	-33.53%
1/F Restaurant	58,138	55,407	-4.70%
Total Consumption	117,177	94,650	-19.22%

Consumption (Unit)



The significant drop in gas consumption of water boilers was mainly due to the operation of a multi-function heat pump chiller since August 2016. Our monthly average gas consumption of boilers in the period of August to December 2016 dramatically reduced by 81.06% when compared to the period of January to July 2016. (*Please refer to the following table for more information.)

	Jan-July 2016	Aug-Dec 2016
Monthly Average Gas Consumption of Rooftop Guestrooms' Boilers (in units)	4,938	935.4







Gas-saving Practices at The Harbourview

Heat-recovery System



Multi-function heat pump chiller on our roof



Heat-recovery dishwasher in the kitchen of the Harbour Restaurant

To keep our gas consumption to a minimum, The Harbourview has operated a heat-recovery system since 2016. We have installed a 120ton multi-function heat pump chiller on the roof and a heat-recovery dishwasher in the kitchen of the Harbour Restaurant in order to collect waste heat from operation processes which can recycled for the boiling of water. This equipment is environmentally beneficial as it has helped decrease our consumption of gas, and hence, the amount of greenhouse gases emitted into the atmosphere has been reduced.



2.2 Water Conservation



The Harbourview understands that the hospitality industry often consumes a huge amount of water to meet hygiene standards. To be a positive force for our environment, we have implemented various water conservation measures to keep our water consumption at a minimum level, particularly in kitchens, guestrooms and the roof garden.

Highlights of 2016

-3.49%

Our annual water consumption in 2016 was reduced by 3.49% compared to 2015. -3.49%

Our annual water usage of Public Areas and Guestrooms in 2016 reduced by 3.49% compared to 2015. -3.49%

Our annual water usage of Food and Beverage in 2016 reduced by 3.49% compared to 2015.

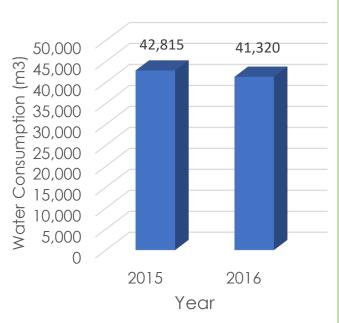
Overview of Water Consumption

Annual Water Consumption

2015	42,815 m ³
2016	41,320 m ³

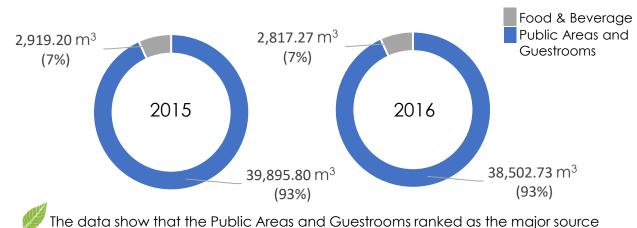


Our annual total water consumption in 2016 was 41,320m³ while that of 2015 was 42,815m³. Our water consumption in 2016 dropped by approximately 1,495m³, i.e. 3.49% when compared to 2015.



Breakdown of Water Consumption

Breakdown of Water Consumption by End-uses



of water consumption, with 93% of the total amount of water used in both 2015 and 2016, while Food & Beverage only consumed 7% of the annual total amount



Water Conservation Practices at The Harbourview



Rainwater Collection System

We established a rainwater collection system on the roof in March 2014. Rainwater is collected, filtrated and then used for irrigation and floor cleaning.



2. Flow Controllers

We have installed flow controllers on showers and water taps in all guestrooms.



Sensor Faucets

We have installed sensor faucets in all staff restrooms to reduce water wastage.



Low-flow **Water Taps**

In April 2015, we installed low-flow water taps in the kitchens at the Harbour Restaurant and Mezz Floor.





2.3 Waste Reduction



For the sake of our future generation, it is our responsibility to protect the natural environment. To reduce the environmental impacts generated from waste, waste management has become one of the essential tasks for The Harbourview. Our principles of waste reduction primarily focus on recycling, and secondarily on reuse.

Waste Recycling

The Harbourview actively participates in waste recycling. We have set up recycling schemes to recycle newspapers, used paper, plastic bottles, aluminium cans, glass bottles, used oil and printer toner cartridges. Most of our recycled waste is newspapers and used paper comes in second.

Newspapers

5,956 kg

We recycled 5,956 kg of newspapers in 2016.

Plastic Bottles

2,005.4 kg

We recycled 2,005.4 kg of plastic bottles in 2016.

Used Paper

2,600 kg

We recycled 2,600 kg of used paper in 2016.

Aluminium Cans

244.3 kg

We recycled 244.3 kg of aluminum cans in 2016.

Continue >









Waste Recycling

Glass Bottles

1,616.4 kg

We recycled 1,616.4 kg of glass bottles in 2016.

Waste Oil

806 L

We recycled 806 L of waste oil in 2016.

Printer Toner Cartridges

65 cartridges

We recycled 65 printer toner cartridges in 2016.





Rechargeable Battery Recycling

Apart from the above-mentioned materials, The Harbourview has also placed recycling boxes outside the office to collect rechargeable batteries for recycling.



Environmental Enzymes

The Harbourview has made use of food waste such as fruit and vegetable dregs to produce Eco Enzymes.





Waste Recycling through

Charitable Action



Food Donation

To reduce food wastage, The Harbourview joined the "Food Wise Eateries Scheme" in November 2015. Also, we have been working with "Foodlink Foundation", a charity which collects food from restaurants and donates it to homeless people, since December 2015. This helps reduce not only our food waste, but also the pressure on landfills. The needy of our society can benefit from the programme too.





Donation of Electronic Appliances, Furniture and Used Utensils

The 20 – 21/F of The Harbourview were renovated and rebranded as "The Optimum Floor" in 2016. The electrical appliances, old furniture, and some used utensils were then transferred to six of the Chinese YMCA of Hong Kong service centres and the recycling centres in June of the year.

2.4 GHG Emissions

Net Total GHG Emissions (In tonnes of CO_2 -e)

2015	2,927.51
2016	3,035.95



Our total annual GHG emissions in 2016 were 3,035.95 tonnes of CO_2 -e, while the figure for 2015 was 2,927.51 tonnes. Our 2016 GHG emissions increased by 3.7%. The increase was mainly due to an increase in electricity consumption. For more information, please refer to the section "Energy Saving" in Chapter 2 Environmental Performance.



Breakdown of GHG Emissions



Referring to the graph on the right, it revealed that the increase in GHG emissions in 2016 was mainly due to the rise in Scope 2 which was energy indirect emissions.

Scope	2015	2016	Variance
Scope 1: Direct Emissions (In tonnes CO ₂ -e)	299.39	241.97	-19.18%
Scope 2: Energy Indirect Emissions (In tonnes CO ₂ -e)	2,591.18	2,758.34	+6.45%
Scope 3: Other Indirect Emissions (In tonnes CO ₂ -e)	36.94	35.64	-3.51%

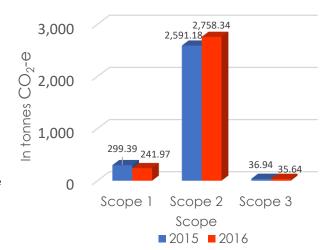


Energy indirect emissions in Scope 2 are derived from the amount of both electricity and gas purchased. As our annual electricity consumption had raised in 2016, Scope 2 emissions saw a rising trend.



In order to reduce our GHG emissions in the following year, we will strive our best to reduce energy consumption. As such, we have developed the energy-saving plan below to achieve energy saving in the coming years.

Breakdown of GHG Emissions by Scopes



2016

- Install a heat pump chiller
- Replace the windows in the guestrooms on the 20 21/F with double glazing.
- Replace 40 fan coils

2018

- Install energy-saving dishwashers
- Install an oil-free chiller
- Replace the windows in the guestrooms on the 18 - 19/F with double glazing
- Replace 40 fan coils
- Replace nonessential lightings with LED sensor tubes

2020

- Conduct an energy audit
- Replace the windows in the guestrooms on the 14 – 17/F with double glazing
- Replace 100 fan coils











2017

• Install a heatrecovery dishwasher

2019

- Replace 100 fan coils
- Coat our rooftop floor with heat insulation paint
- •Renovate the 3 -4/F toilets

3. Green Awareness



3.1 Staff Engagement

The Harbourview understands that successful environmentally friendly hospitality management requires enhancement of our staff's environmental awareness as well as well-planned and effective green policies; therefore, in order to further increase our staff's environmental awareness, The Harbourview has paid keen attention to the staff's access to up-to-date environmental information.



One of the measures is to organise environmental visits for our stafff regularly. In August 2016, a field trip to the EcoPark, Tuen Mun was held to enhance the staff's green awareness in regard to waste management and waste reduction.



Practices

In mid-2015, The Harbourview developed "Internal Environmental Best Practices" for different departments. The practices emphasise three aspects, namely energy saving, water conservation, and waste reduction.

These practices aim to assist our staff in integrating environmental protection practices into management and daily operation so as to enhance our environmental performance.

3. Green Awareness

3.1 Staff Engagement

To enhance the awareness of environmental protection among our staff, The Harbourview posts environmental information on the notice board at our staff canteen every two months.



The theme in October 2016 was

"Air Pollution"



The theme in December 2016 was

"Water Pollution"



2016 Staff Green Awareness Survey To study our staff's environmental awareness and pro-environmental behaviour, The Harbourview has conducted a Staff Green Awareness Survey annually since 2015. Regarding the results in 2015, the mean score of our staff's environmental awareness was 3.62 (full marks: 5), while it was 3.67 in 2016. The result shows that our staff are interested in receiving updated environmental information despite lacking specialised environmental knowledge.

3. Green Awareness



3.2 Guest Engagement

The Harbourview is making an all-out effort to provide quality services to our guests in an eco-friendly manner. We encourage our guests to join hands in the pursuit of environmental protection with us.







Visit Nearby Attractions

There are a lot of sightseeing spots in Wan Chai where The Harbourview is located. We encourage our guests to make a visit to the attractions nearby which are within walking distance in order to help reduce carbon emissions.





Decorate Guestrooms with Eco-friendly Advice

In early 2016, The Harbourview decorated guestrooms with some green tips to encourage our guests to use less energy and water.



In mid-2016, The Harbourview conducted a survey regarding the environmental awareness of our guests. The mean score of our guests' environmental awareness was 3.92 (full marks: 5) which was slightly higher than the mean score - 3.84 in 2015. Both results show that our guests have a relatively strong awareness of environmental protection and prefer to stay in eco-friendly accommodation when travelling abroad.

2016 Guest Green Awareness Survey

4. Partnership



Partnership with EdUHK

To strengthen our management and improve our performance in environmental aspects, The Harbourview started a partnership with The Education University of Hong Kong (EdUHK) in 2015. Dr. Lewis Cheung, Dr. Lincoln Fok and Dr. Alice Chow from the Department of Social Sciences and Department of Science and Environmental Studies act as consultants and provide professional advice to transform The Harbourview into an environmentally friendly hospitality service provider.

Environmental Talk







In January 2016, The Harbourview organised the Environmental Talk and invited Dr. Alice Chow to share her specialised knowledge on climate change so as to enhance our staff's green awareness and knowledge.

5. Internship

Environmental Internship

In addition to strengthening our environmental practices and awareness, The Harbourview has also contributed efforts to improving the environmental development of our society since 2015. By collaborating with The Education University of Hong Kong, The Harbourview offers a summer internship programme for undergraduates of Global and Environmental Studies. In 2016, we continued to invite students to join our summer internship programme in which they could have the opportunity to apply their technical knowledge in a practical way.



An environmental talk was held by our interns. They shared with us the green information about carbon footprints and green living style.

5. Internship

Environmental Internship

Apart from the environmental talk, our interns also took up a role as a leader in connection with various environmental duties.

Let's see what they did.

2016 Green Awareness Survey

In June 2016, EdUHK interns conducted the "2016 Green Awareness Survey" to study the environmental awareness of both our staff and guests. The results helped us formulate environmental policies and measures for the coming years.













Updating of the Staff Canteen Notice Board

In August 2016, EdUHK interns updated the environmental information at the staff canteen notice board with our Engineering Department.

The theme was the "Advantages and Disadvantages of Wind Energy and Nuclear Power".





6. Environmental and Social Responsibilities

To fulfill our commitment to environmental protection, The Harbourview participated in various environmental schemes in 2016.



2

Earth Hour

The Harbourview joined "Earth Hour" in March 2016. To support "Earth Hour", we switched off all the lights in our offices for an hour at 8:30pm on 19 March 2016.

Charter on External Lighting

In January 2016, The Harbourview signed up to the "Charter on External Lighting" in support of mitigating the problem of light nuisance and energy wastage caused by excessive artificial outdoor lighting. Lighting on the façade of The Harbourview has been turned off from midnight since then.



19.3.2016 (Sat)

Earth Hour



1





6. Environmental and Social Responsibilities



In September 2016, we pledged a "sharkfree policy" to the "Hong Kong Shark Foundation".

In November 2016, we participated in the "Zero Waste in Trade" Forum cum Launching Ceremony on "Best Practice Guideline for Water Usage".



2015-16 Friends of EcoPark Award



The Harbourview received a "Friends of EcoPark Certificate of Appreciation" in recognition of our support given to the recycling business in EcoPark. In order to fulfil our commitment to the environment, we will keep on making our very best effort to foster a green working environment at The Harbourview.



The Harbourview

THE ECO-FRIENDLY WAY WE SERVE

Thank you for reading our 2016 Green Report

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