



St. Paul's Secondary School

HKAEE Workshop 10 Dec 2024



香港環境卓越大獎
Hong Kong Awards for Environmental Excellence

School Information

Sponsoring Organization: The Sisters of St. Paul de Chartres

Category: Grant-in-aid School

Type: Girls' School

Religion: Catholic

Medium of Instruction: English

No. of students: 774

No. of staff members: 104

Website: www.spss.edu.hk

Telephone No.: (852) 2577 3836

Fax No.: (852) 2882 4552

Supervisor: Sr. Fung Choi Wa

Principal: Ms. Tracy Cheung

Built in: 1960

Address: 18A Ventris Road, Happy Valley, Hong Kong.



St. Paul's Secondary School 聖保祿中學

Vision and Mission



School Motto

All Things to All Men

Message from our sponsoring organization

In the Bible, God's command to Adam and Eve in the Garden of Eden was to "be fruitful and multiply, and fill the earth and subdue it; and have dominion over the fish of the sea and over the birds of the air and over every living thing that moves upon the earth" (Genesis 1:28)

Message from our Principal

At our school, we have a steadfast mission to educate and empower our students, enabling them to become active global citizens who contribute to the achievement of the Sustainable Development Goals (SDGs). By seamlessly integrating SDG principles into our comprehensive curriculum, fostering sustainable practices, and wholeheartedly promoting awareness and action, we aspire to ignite a passion within the younger generation, fostering a collective commitment to building a sustainable and equitable world for all.

The Green School Working Team

To establish an environmental conservation and sustainable development culture in the school.
To cultivate students' knowledge in green education and nurture our green talents.
To facilitate all school members' and their family members' effort towards putting the environmental conservation measures into practice
To inspire any individuals or organizations in contact with us to follow our good practices.

Green Leadership

Integrate Sustainable Development & Environmental Education

School Development Plan 2021 – 24



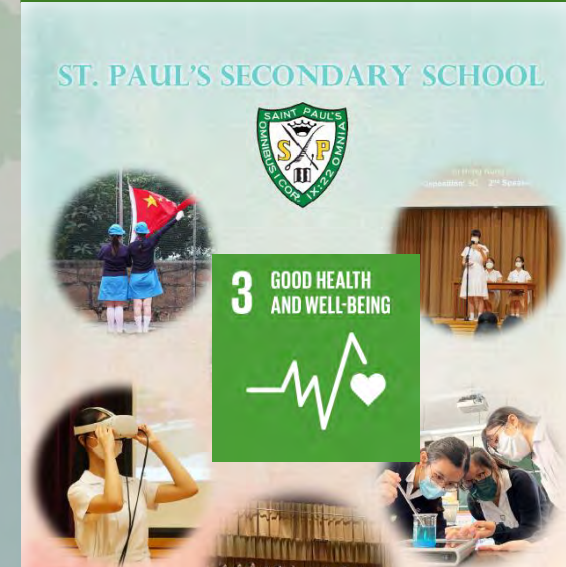
Integrating Sustainable Development with Green Education

Annual School Plan 2021 – 2022 p.8



Align more OLE activities with 17 SDGs

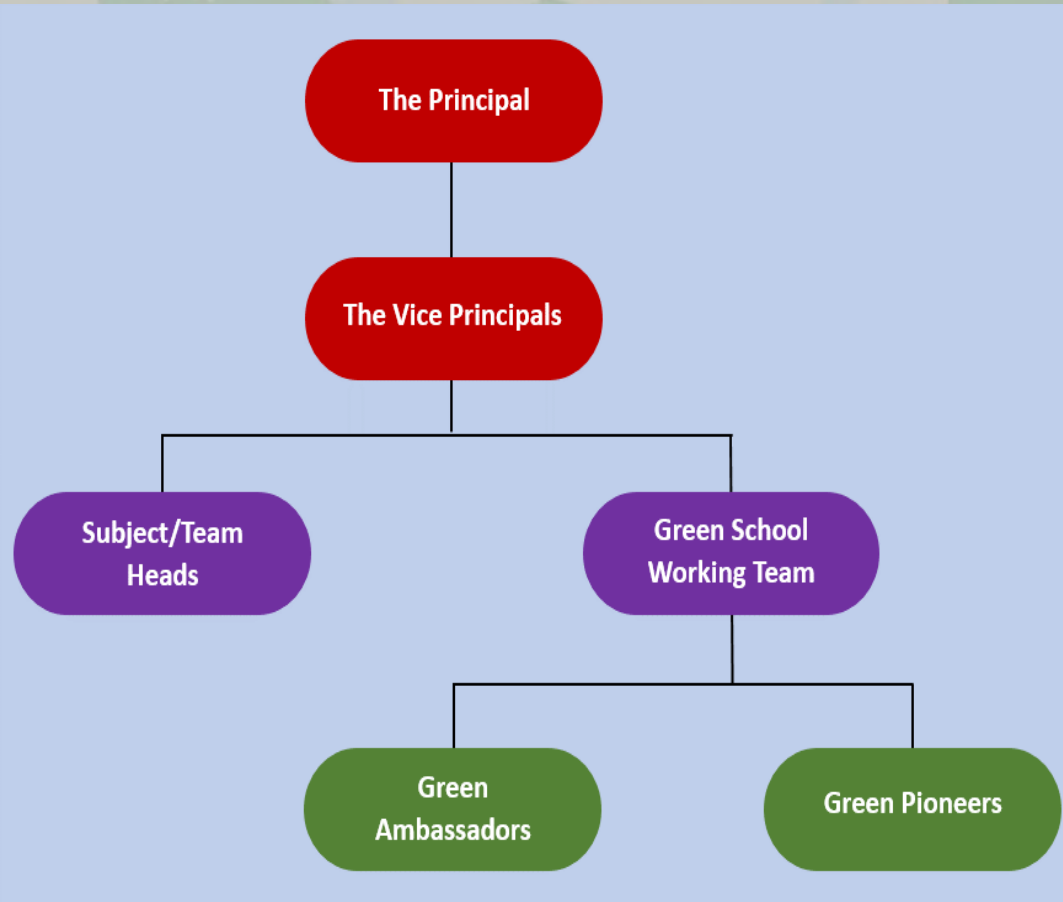
Annual School Plan 2022 – 23 p.10



Organize programmes to cater for the emotional well-being of students from individual to school level

Green Leadership

Governance Framework



Major Members



Supervisor, Principal, Vice principals, Green School Working Team, Green Pioneers



Green School Website
> Governance Framework



Green Leadership

Policies, ESG Report & Funding

Green School Website > Policy



1. [Environmental Policy](#)
2. [Green School Policy](#)
3. [Landscape Maintenance Guidelines](#)
4. [Green Procurement Guidelines](#)
5. [Use Less Water Guidelines](#)

ESG Report 2022 - 23



*St. Paul's Secondary School
Green School Working Team*

Financial Report on the Budget and Actual Expenditure of Subject and Team for the year 2022/23						
	Subject	Budgeted Amount	Actual Expenditure	Under-spent	Over-spent	Usage Percentage
28	Green School Team	3,000.00	1,010.00	1,990.00		33.7% (受惠於獎金補貼)
37						
38						
39						

Updated to 7 Aug 2023

Green Leadership

Role of Stakeholders

Principal & V. Principal

- Giving advice
- Approving policies

PTA & Alumnae

- Giving suggestions

Green School Working Team

- preparing and reviewing various policies and guidelines
- conducting evaluations

Staff members & Students

- Giving suggestions
- Giving responses to surveys

General Public

- Giving suggestions or feedback through our Green School Website



St. Paul's Secondary School
School Survey Results for All Teachers (2022–2023)

Major Concern 2: To reinforce students' character strengths through focusing on the virtues of transcendence as well as wisdom and knowledge

Green Education Questions	22-23	Students	21-22
47. I am aware of the importance of environmental conservation and sustainable development by putting the green concepts into daily life practice.	4.28		
48. I have promoted environmental conservation and sustainable development in my teaching and activities.	4.22		4.02
49. Students have participated in school activities related to sustainability and environmental protection [e.g., recycling programmes, clothes donation programme, Green Talk, One Person One Flower Planting Scheme, horticultural activities, etc.]	4.13	3.47	3.86
50. Students have tried to be more environmentally friendly when organising or taking part in school activities.	4.05	3.71	3.75

St. Paul's Secondary School
School Survey Results for All Teachers (2022–2023)

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Green Leadership

Commitment


 機電工程署 EMSD

節能約章2023 Energy Saving Charter 2023


為應對氣候變化，提倡全民節能減碳 我們支持政府的《節能約章2023》

我們承諾

- (1) 在2023年夏季6月至9月期間，將平均室內溫度維持在攝氏24至26度之間
- (2) 在2023年6月至2024年5月期間，購辦不使用的電器及系統，並且採購具能源效益的產品（加貼有一級能源標籤的電器用具）及系統
- (3) 與員工/學生/租客共同實踐以上節約能源措施
- (4) 推廣能源數據的透明度，並分享節能措施和成果（新承諾）；及
- (5) 促進既有建築節能改造（新承諾）

To encourage community-wide participation in saving energy and carbon reduction we support the Government's Energy Saving Charter 2023

We pledge to

- (1) maintain an average indoor temperature between 24-26°C during the summer months of June to September in 2023
- (2) switch off electrical appliances and systems when not in use and procure energy efficient appliances (such as those with Grade 1 energy labels) and systems from June 2023 to May 2024
- (3) engage staff /students /tenants to adopt the above energy saving practices together
- (4) promote energy data transparency, and share energy saving measures and achievements (New pledge); and
- (5) promote building energy saving retrofit (New pledge)

參與場所：聖保祿中學 (所有地方)

Participating Premises: St. Paul's Secondary School (All areas)

簽署約章年份 Signed the Charter : 2020, 2021, 2022

支持團體 Supporting organization: 環境及生態局 Environmental Protection Department
 贊助者 Sponsor: 機電工程署 Environmental and Construction Fund




Energy Saving Charter


 機電工程署 EMSD

4T約章 4T Charter


為應對氣候變化，提倡全民節能減碳 我們支持政府的《4T約章》

我們承諾

- (1) 訂立節能**目標及時間表**
- (2) 確保節能成果及建築物能源數據的**透明度**；及
- (3) 鼓勵全民（加員工/學生/住戶/租客）**共同參與**達成節能目標

可供選擇的額外承諾
 因應減碳而訂立目標和時間表

To encourage community-wide participation in saving energy and carbon reduction we support the Government's 4T Charter

We pledge to

- (1) set energy saving **TARGET** with a **TIMELINE**
- (2) ensure **TRANSPARENCY** on energy saving result and building energy data; and
- (3) encourage inhabitants (including staff, students, occupants, tenants) to work **TOGETHER** on the above energy saving target

Optional additional pledge
 set targets and timelines for the reduction of carbon emissions

參與場所：聖保祿中學

Participating Premises: St. Paul's Secondary School

支持團體 Supporting organization: 環境及生態局 Environmental Protection Department
 贊助者 Sponsor: 機電工程署 Environmental and Construction Fund




4T Charter


 香港特別行政區政府 環境局 EMSD

“不要鎢絲燈泡” 節能約章 Energy Saving Charter on “No ILB”

為應對氣候變化，提倡“珍惜資源，全民節能”，我們已簽署“不要鎢絲燈泡” 節能約章。我們會致力推廣更環保的照明燈具，節省電力。

我們承諾

避免採購指定的鎢絲燈泡作一般照明用途；及
 採用較高能源效益的照明燈具。

讓我們攜手合作，共同推動可持續發展。

To combat climate change and to encourage community-wide participation in saving energy, we have signed up to the Government's Energy Saving Charter on “No Incandescent Light Bulbs (ILB)” in Hong Kong. We are committed to promote greener lighting for conserving energy.

We pledge

to refrain from procuring targeted ILB for general lighting purposes; and to adopt more energy-efficient lighting.

Let us work together in our pursuit of sustainable development.

機構標誌 Organisation Logo


 機電工程署 Environmental and Construction Fund

註：指定的鎢絲燈泡包括220伏特電壓和電流約25瓦或以上的一般型鎢絲燈泡，包括一般鎢絲燈泡、雙燈泡、花籃燈泡及其他鎢絲燈泡，但不包括低壓鎢絲燈泡。
 Note: Targeted ILB includes non-dimmable type ILB of 25 watt (W) or above, which operates at a single phase electrically supply of nominal voltage of 220 volts (V) including General Lighting Service lamps, candle shape, fancy shape and other incandescent lamps, but excluding tungsten halogen lamps.

No ILB Charter

玻璃容器回收 Glass Container Recycling

約章 Charter

作為約章合作伙伴，我們承諾進行源頭分類，乾淨回收，致力提升玻璃容器回收。
 As a Charter partner, we are committed to practising source separation and clean recycling and taking effort to improve glass container recycling.


 環境保護署 Environmental Protection Department


 聖保祿中學 St. Paul's Secondary School

Glass Container Recycling Charter

Green Leadership

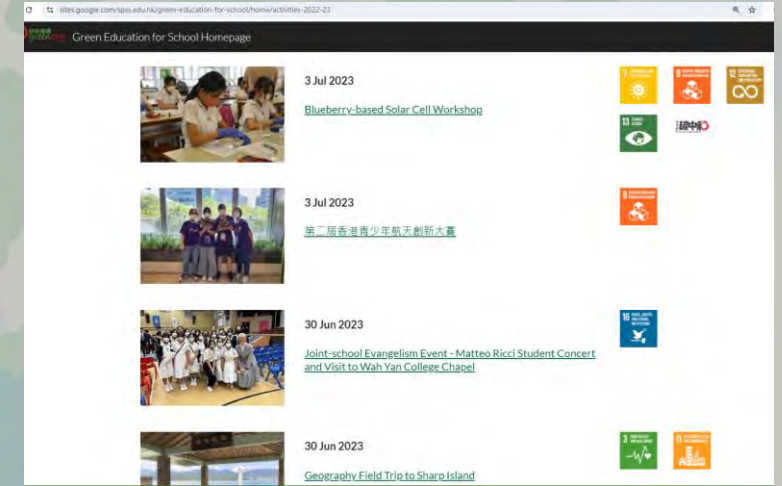
Foci & Green School Website



4 foci: Decarbonization, Circular Economy, Partnership, Nurture Green Talents



Information are disseminated through the website (various subpages) which is regularly updated.



SDG and Carbon Neutrality mapping of activities

Green Leadership

Risk Management

ESG Report 2022 – 23 p.16






Trees on the slopes are monitored



The installation of Grade 4 air-conditioners are investigated

ESG Report 2022 – 23 Looking Ahead p.25

Objectives	Key Results
To comply with our commitments   	➤ Ensure only Grade 1 air conditioners will be installed on campus.

Programme and Performance

Decarbonization

ESG Report 2022 – 23
p. 18 Carbon Audit

GHG emissions	CO2-e (tonnes)
Scope 1	0.14
Scope 2	421.14
Scope 3	38.29
Total	459.57

Description (by sources, areas, etc.)	GHG Emissions by gas type (in tonnes of CO2-equivalent)					Total
	Carbon Dioxide (CO2)	Methane (CH4)	Nitrous Oxide (N2O)	Hydrofluorocarbons (HFCs)	Perfluorocarbons (PFCs)	
Scope 1 Direct GHG Emissions						
Stationary Combustion Sources	0.14	0.0001	0.0002	N/A	N/A	0.14
Mobile Combustion Sources	0.00	0.0000	0.0000	N/A	N/A	0.00
Fugitive Emissions						

Electricity consumption = 91.6%
Paper consumption = 7.5%

ESG Report 2022 - 23
> Looking Ahead p.26

Looking Ahead

Objectives	Key Results
To reduce GHG emissions	<ul style="list-style-type: none"> Electricity consumption will remain the same as it was in 2022-23. Reduce our paper consumption by 5%. Complete the Feed-in Tariff (Phase 2). Reduce GHG emissions by 8000 kg CO2-e.
To consolidate good practices in saving electricity	<ul style="list-style-type: none"> Record the number of family members inspired by our students in joining "No Air-Con, Night" and "Earth Hour".
To harness renewable energy	<ul style="list-style-type: none"> Relocate the Green Wall with solar panels to provide electrical energy for the watering system.

Electricity consumption will remain the same as it was in 2022-23.

Reduce our paper consumption by 5%.

Complete the Feed-in Tariff (Phase 2).

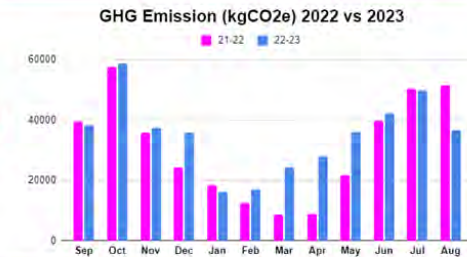
Reduce GHG emissions by 8000 kg CO2-e.

ESG Report 2022 – 23
Reduction of GHG emissions p. 20 Carbon Audit

Source	Materials	Weight (kg)	Reduction (kg Co2-e)
Feed-in Tariff Scheme	Solar Panels	---	715.7
Upcycling Our Waste – PET & HDPE Plastics	PET	28.1	73.1
	HDPE	11.0	20.9
Water Dispenser	PET	83.0*	215.9
Total:			1025.6

*The estimated weight of each PET bottle is 13 grams.
The estimated total reduction ≈ 45 trees.

Green School Website > Green Survey > Carbon Neutrality



Energy consumption (electricity, town gas and water) is monitored

Comparison between 21-22 and 22-23

Decarbonisation

Net Zero Electricity



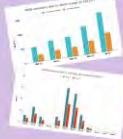
Waste Management



Carbon Audit



Energy Saving



13 CLIMATE ACTION



Programme and Performance

Waste Management

Recycling Programme	No. of responses (students)	No. of items collected
Plastic Items Recycling Programme	698(80)	2690
Clean Beverage Cartons Recycling Programme	102(22)	736
Glass Containers Recycling Programme	28(8)	106
Rechargeable Batteries Recycling Programme	3(3)	5
Ink Cartridges Recycling Programme	2(2)	3



An evaluation on the Plastic Items Recycling programme was conducted. Based on students' feedback, a word cloud was obtained.



ESG Report 2022 -23 > Looking Ahead p.25	
Objectives	Key Results
To improve our waste management 	➤ Measure the weights of our plastic items for recycling.



Programme and Performance

Circular Economy

Programme	Source	Items upcycled (Partners)	Participants
Upcycling Our Waste – PET and HDPE plastics	Plastic Items Recycling Programme	28.1 kg of PET into rPET 11.0 kg of HDPE (Dreamcubics 3D Printing Ltd.)	80 students
Upcycling Our Waste – School Sweaters	1. Students' donation 2. Lost & Found	8 sweaters into yarn (HKRITA)	8 students
Upcycling Our Waste – Fruit Skins	Joyful Fruit Day	20 orange skins into eco-enzymes	10 students, 60 teachers & 10 janitors



Green School Website
 > Policies > Waste Management



Pin cushions
 Plastic lids from recycling programme were used to make pin cushions by Home Economics Department.



Programme and Performance

Sustainable School Catering & Green Procurement

Sustainable Menus

local/seasonal natural products, sustainable food, more vegetable and less meat, lower carbon footprint, etc.

學校膳食服務指引| 2022-2024
(Sections 2 & 3)

參照衛生署《學生小食營養指引》
(最新版) 中選擇健康應商需參照
衛生署《學生小食營養指引》
(最新版) (Section 4)

Sustainable Menus

Measures to reduce generation of food wastes (e.g. meal portioning) are implemented.

學校膳食服務指引| 2022-2024
(Section 3.13)

膳食完畢後負責清理保温箱,飯盒及垃圾並搬離學校,亦須清理所有物資及有關場地

Sustainable Menus

Measures to encourage the use of reusable utensils (including containers) and discourage the use of disposable utensils (especially those provided for take-aways) are implemented.

學校膳食服務供應 (Section B10)

學校膳食服務指引| 2022-2024
(Sections 2.8, 3.10, 3.11 & 3.15)

Sustainable Menus

Measures to reduce disposal of food waste (e.g. food donation, food waste recycling, etc.) are implemented.

學校膳食服務指引| 2022-2024
(Section 3.13)

Green School Website

> SPSS Only > Green Living



Green lunch boxes

Vegetable food in the lunch box menu for our students every day. This reduced the carbon emissions due to our food consumption. Our contractors are also responsible for the collection of the kitchen waste.



PEFC papers

ESG Report 2022 – 23

Looking Ahead p.27

The targets in the Looking Ahead section of our Environmental Report 2021-22 are listed in the table below. All items were completed.

Targets	Evidence for completion
Revise the Green Education Curriculum	Green Education Curriculum 2023
More promotion for our recycling programmes and activities.	Promotional video produced by Green Pioneers. See Section 2.7.
Installation of solar panels at the roof and the joining of the Feed-in tariff programme.	See Section 2.8.
Calculation of the carbon emissions in our school and its reduction.	See Section 3.2 and 3.6.
Integrate sustainable development with green education.	SDGs mapping of our activities , Recycling Programmes , Green Reading , and Green Education Curriculum .
Another Green Pioneers group of 10 Form 2 students.	See Section 2.7.

[Green School Working Team minutes](#)

[Review by Alumnae & PTA](#)

Programme and Performance

Campus Greening



Installation of Green Wall and its maintenance



STEAM Room Green Wall



Organic Farming at the roof



Green slopes



Grow something



Playground



Teacher's plants

Programme and Performance

Campus Greening



Aspara Hydroponics Course



Suitable species



One Person, One Flower Scheme



Parent-Child Grow Something Workshops



Form 3 Grow for the Future 2022

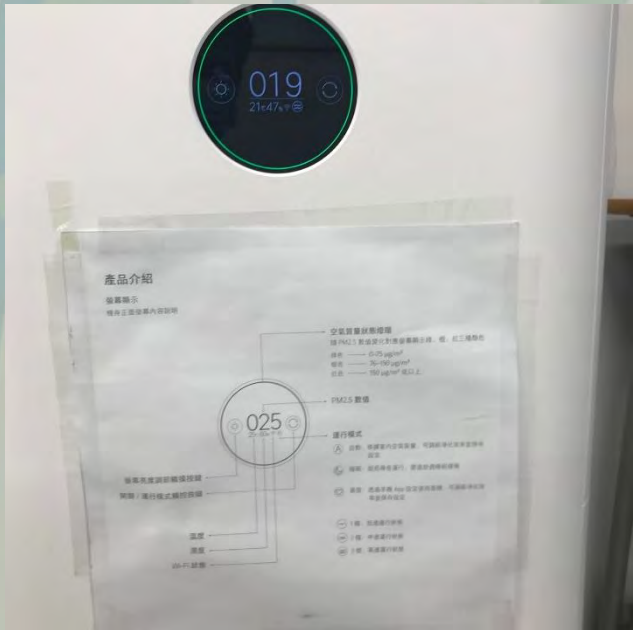


Be Our Smart Gardeners Briefing Session

Programme and Performance

Campus Environment Noise & Indoor Air Quality

There is/are **NO** source(s) of noise pollution on campus.
Our school is **NOT** affected by external noise pollution.



Air Cleaners are placed in some rooms of the campus.

Programme and Performance

Green Education

1. 3-tier Implementation Model

Tier 1 - Compulsory

All students establish their values, acquire the subjects' knowledge and skills in our Green Education Curriculum and current development in Green Education.

Within School Activities: Classroom lessons, Talks, Interactive Drama & Joyful Fruit Day etc.

Tier 2 - Students' self-nomination and teachers' nomination

For more able students and students who wish to gain more knowledge in Green Education, hands-on experience, develop green habits and enhance their high-order thinking skills.

Within School Pull-out Activities: Green Reading, Recycling Programmes, structured learning courses, etc.

Tier 3 - Teachers' nomination

For the high ability students to demonstrate their learning, creativity, and other generic skills (e.g. communication skills, problem solving skills, high-order thinking skills etc.)

Off-site Activities: Structured learning courses, field trips, and competitions etc.

2. Sharing of learning outcomes

Students' works are uploaded to our Green School website for sharing if appropriate. (within school or for the public)

3. Evaluations

School Surveys, evaluations on Green Education Curriculum, and other evaluations.

Green School Website > Curriculum

		2022-23	2023-24
Green School Working Team	1. L & S Panel (Lunch & Learn) Programme	4.11.17-21, 24, 27, 28, 29	
	2. Nurturing Our Green Talents Programme	2.5.23, 1.10.23	
	3. Passion Club 2nd Edition Programme	3.2.17-6, 7	
	4. Green School Website Maintenance & Update Project	4.1.17, 15, 4	
	5. Social Innovation Community EE Cooperation	16.11	
	6. Green School Working Team	11.12.17, 1	
	7. Green School Working Team	11.12.17, 1	
	8. Green School Working Team	12.13.17	
	9. Green School Working Team	2.5.20, 5.13.20, 6.11	
	10. Green School Working Team	4.12.21, 1	
Green School Activities	1. Green School Working Team	4.1.23, 1, 13, 14, 15, 17, 18, 19	
	2. Green School Working Team	13.6.23	
	3. Green School Working Team	13.6.23	
	4. Green School Working Team	13.6.23	
	5. Green School Working Team	13.6.23	
	6. Green School Working Team	13.6.23	
	7. Green School Working Team	13.6.23	
	8. Green School Working Team	13.6.23	
	9. Green School Working Team	13.6.23	
	10. Green School Working Team	13.6.23	

Assessment: Teachers' feedback on students' knowledge, green habits and participation in the green school for their self-reflection.

Sustainable Development Goals (SDGs)





Nurture Green Talents

Green Education Curriculum covers various key learning areas with SDG & Carbon Neutrality mapping



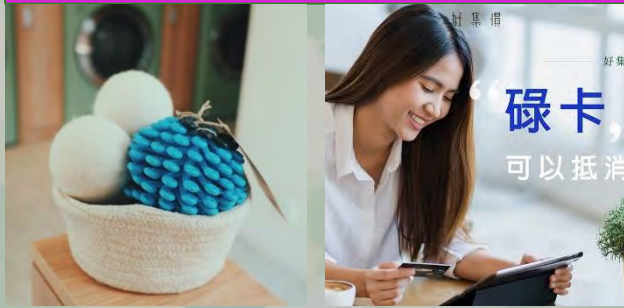
ESG Report 2022 – 23 Looking Ahead p.25

Objectives	Key Results
To further nurture our Green Talents  	<ul style="list-style-type: none"> ➤ Clearly defining the criteria of the activities under 'Nurture Our Green Talents'. ➤ Promote green career development on our website and via talks on relevant topics (e.g. green finance, green jobs, etc.).

Programme and Performance

Green Education

Green Reading

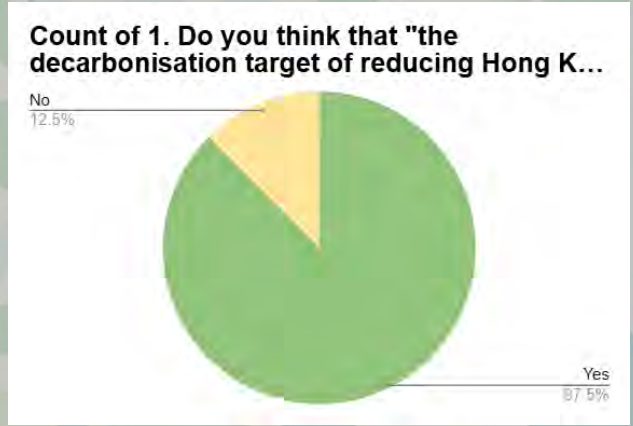


Questions for 2022 - 23

Green School Website > Curriculum

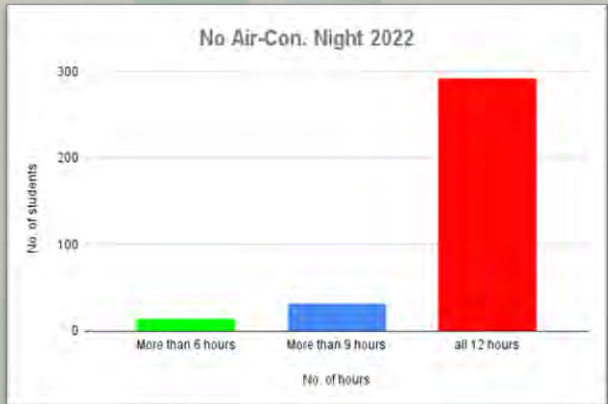


Green Reading
Environmental and Sustainable Development issues
High-order thinking skills
Creativity
Peer learning across different levels



Programme and Performance

Green Education



No Air Con Night
338 students joined the 12-hour challenge and inspired their family members to join the event as well.



Blueberry-based Solar Cell Workshop



Smart Water Detectives Talk



Australian Crayfish Course Evaluation



Greening for the Chest



STEAM Fair



Evaluation on Green Talent Training Programme 2022 – 23



Get Redressed Clothing Drive

Programme and Performance

Achievement



**Outstanding Performance
in Sustainable Leadership
and Learning, and
Sustainable Campus
Environment**

Programme and Performance

Achievement

ESG Report 2022 – 23 Activities of the Carbon Neutrality p.18



H: 214 A: 39
S: 3932 T: 208
P: 19

ESG Report 2022 – 23 Activities of the Environmental SDGs p.17

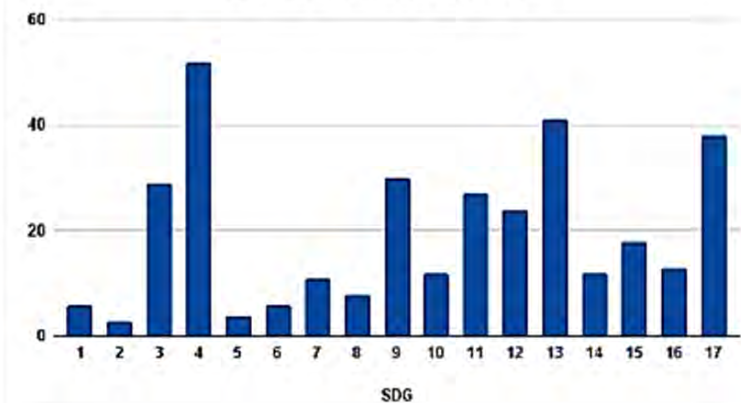
A: 6 T: 17	H: 30 S: 281 P: 0	6 CLEAN WATER AND SANITATION 	7 AFFORDABLE AND CLEAN ENERGY 	H: 98 S: 679 P: 0	A: 11 T: 30
A: 24 T: 164	H: 162 S: 2794 P: 10	12 RESPONSIBLE CONSUMPTION AND PRODUCTION 	13 CLIMATE ACTION 	H: 279 S: 4044 P: 19	A: 41 T: 203
A: 12 T: 39	H: 104 S: 847 P: 0	14 LIFE BELOW WATER 	15 LIFE ON LAND 	H: 153 S: 940 P: 8	A: 18 T: 51

H = Hours A = Activities
S = Students T = Teachers
P = Parents

ESG Report 2022 – 23 Social p.21

SDG	4 QUALITY EDUCATION 	5 GENDER EQUALITY 	10 REDUCED INEQUALITIES 	11 AFFORDABLE AND CLEAN ENERGY 	16 PEACE, JUSTICE AND STRONG INSTITUTIONS 	17 PARTNERSHIPS FOR THE GOALS
H	404	31	75	146.5	63	233
A	52	4	12	27	13	38
S	3527	147	258	2117	731	1382
T	221	7	20	86	32	79
P	48	0	0	8	15	49

No. of Activities vs SDGs



Programme and Performance

Achievement

Education for Sustainable Development and Environmental Education activities				
Domain	LWL (including OLE)	Outdoor Learning Activities	STEM Education Activities"	Student Ambassador (Green Pioneers)
No. of Activities	94	21	55	11
Total No. of Activities	96	Total No. of Students	774	
Total No. of hours	25078	Average	32.4	

Partner Synergy


Partnership

Green School Website >
Our Partners



17 PARTNERSHIPS FOR THE GOALS



ESG Report 2022 – 23 Looking Ahead p.26	
Objectives	Key Results
Improving our partner synergy in developing our green education 	➤ Allying with at least 3 more organizations.



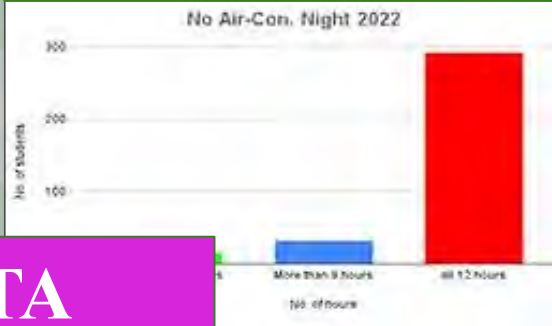
Partner Synergy

Parents & other schools



STEAM Fair

Encourage students and their family members to adopt green practices at home



PTA



Joyful Fruit Day



Parent-Child Grow Something Workshops



WWF

Winning School Visit cum Environmental Training Workshop of Hong Kong Awards for Environmental Excellence (Schools Sector)



Co-Win STEAM Project Sharing with Munsang College (Hong Kong Island)



Painting on Fabrics Competition



List of participating school

Various Schools

Partner Synergy

Partners & Service Provider

ESG Report 2022 – 23 p.15

Recycled Items	Handling organization
Plastic items No.3 - 7	Baguio Green Group or Green Community 6
Ink cartridges	Canon Hong Kong Co. Ltd.
Rechargeable batteries	Green Community 6
Glass Containers	Baguio Green Group
Clean Beverage Cartons	Vitasoy Hong Kong

Sustainable Menus

2022-2024 年度 學校膳食服務供應商招標

附件3 (文件號碼15&16)



Talk & workshops



Sweaters to scarves



rPET & rHDPE filaments



PEFC papers

Partner Synergy

Community

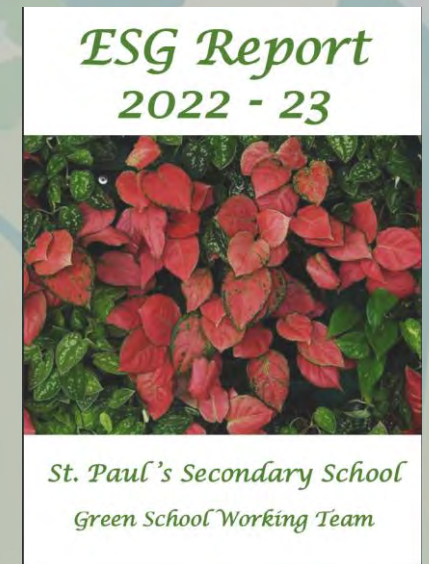
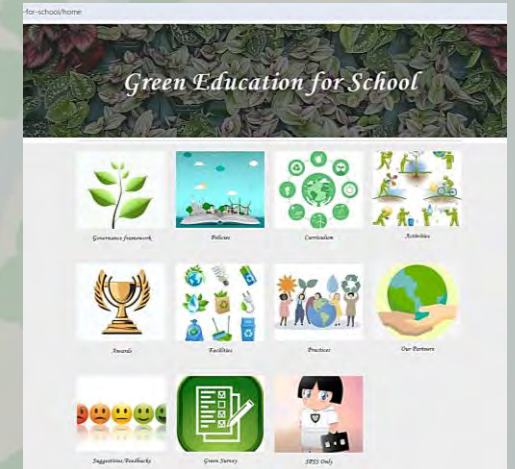
Green School Website
> Curriculum > Sustainable
Ecology in Our Campus



Exploring Biodiversity around SPSS (people nearby uploaded animal photos to our iNaturalist account)



4 videos for renewable energy and recycling to raise awareness



The background features a stylized illustration of a path leading through a forest of trees towards a building in the distance. The trees are rendered in shades of light green and blue, with simple, rounded foliage. The path is a light blue-grey color, and the building in the distance is a simple white structure with a red roof. The overall style is clean and modern.

Thank You