

SUSTAINABILITY



WHAT DOES SUSTAINABILITY *Mean?*

🌿 A simple idea. A powerful impact. A better future for all. 🌿



Sustainability is the practice of **meeting the needs of the present** without compromising the ability of future generations to meet their own needs.



Sustainability is the ability to **exist and develop** without depleting natural resources for the future.

IN SIMPLE TERMS...



It's about people.

Ensuring everyone has what they need to live healthy and fulfilling lives.



It's about the planet.

Protecting our environment and natural resources for the long term.



It's about prosperity.

Supporting strong, sustainable economies and communities.



It's about responsibility.

Making choices today that don't harm tomorrow.



It's about our future.

Leaving a better world for the next generations.



SUSTAINABILITY MEANS MAKING SMART CHOICES TODAY FOR A BETTER TOMORROW.



Use resources wisely



Reduce waste and pollution



Protect nature and biodiversity



Innovate for a cleaner, greener future



Work together for a sustainable world

Small actions.
BIG IMPACT.
A BETTER WORLD FOR ALL.



WHY SHOULD TWS BE SUSTAINABLE?

SUSTAINABLE TODAY. BETTER TOMORROW. TOGETHER.

At TWS, sustainability is not just a choice, it's our responsibility to protect our planet, support our community and secure a better future for all.



1. LIMITED ENERGY AND NATURAL RESOURCES

Energy, water, and other natural resources are finite. Sustainable facilities help conserve these resources through efficient use and responsible management.



2. LEGAL AND REGULATORY COMPLIANCE

Sustainability practices help organizations comply with local laws, regulations, and environmental standards, reducing the risk of penalties and ensuring responsible operations.



3. ETHICAL RESPONSIBILITY

Organizations have a duty to minimize their environmental impact and contribute positively to the wellbeing of current and future generations.



4. INCREASED ACCEPTANCE AND REPUTATION WITHIN SOCIETY

Sustainable facilities are viewed more positively by students, parents, staff, customers, stakeholders, and the wider community, enhancing the organization's reputation and social responsibility credentials.



5. REDUCED OPERATING COSTS

Efficient use of energy, water, and materials can significantly reduce operating expenses over time.



6. HEALTHIER AND SAFER ENVIRONMENTS

Sustainable facilities often provide better indoor air quality, improved comfort, and safer environments for occupants.



SUSTAINABILITY BENEFITS EVERYONE

Our actions today create a positive impact for our school, our community, and our planet.



For Our Students



For Our Community



For Our School



For Our Future

Together, we can build a greener, healthier and more sustainable TWS.

5 PRINCIPLES OF SUSTAINABILITY

SIMPLE ACTIONS TODAY, A BETTER FUTURE TOMORROW.



1



REDUCE CONSUMPTION

Use resources efficiently and avoid unnecessary waste by reducing the consumption of energy, water, and materials.

-  Use energy wisely
-  Conserve water
-  Use materials responsibly and avoid waste

2



CHANGE SOURCES

Transition from finite and environmentally harmful resources to renewable, sustainable, and environmentally friendly alternatives.

-  Choose renewable energy
-  Use sustainable materials
-  Support environmentally friendly alternatives

3



REDUCE POLLUTION

Minimize emissions, waste generation, and other activities that negatively impact the environment and human health.

-  Reduce emissions
-  Minimize waste generation
-  Recycle and reuse materials
-  Protect air, water and land

4



GOOD CORPORATE CITIZENSHIP

Act as a responsible organization by contributing positively to society, supporting communities, and promoting sustainable development.

-  Support local communities
-  Create positive social impact
-  Promote education and sustainable development

5



ETHICAL BEHAVIOR

Make decisions that are responsible, transparent, fair, and considerate of environmental, social, and economic impacts.

-  Be honest and transparent
-  Act fairly and responsibly
-  Consider long-term impact in every decision

TOGETHER, WE CAN BUILD A SUSTAINABLE FUTURE FOR PEOPLE, PLANET AND PROSPERITY.



Conserve Resources



Reduce Costs



Protect Health and Environment



Strengthen Communities and Relationships



Ensure Long-Term Success

BENEFITS OF SUSTAINABILITY

—  Sustainable Today. Successful Tomorrow.  —



DIRECT BENEFITS

Immediate & Measurable



IDENTIFY SUPPLY CHAIN RISKS EARLY

Detect vulnerabilities before they impact operations.



REDUCED RESOURCE DEMAND

Lower consumption of energy, water, and materials.



INCREASED INNOVATION

Encourages new technologies, creative thinking, and better solutions.



IMPROVED EMPLOYEE PRODUCTIVITY

Healthier and more efficient workplaces enhance performance.



INDIRECT BENEFITS

Long-Term & Strategic



COMPETITIVE ADVANTAGE

Differentiates the organization from competitors.



ENHANCED CORPORATE IMAGE

Strengthens reputation among customers, parents, staff, and stakeholders.



EMPLOYEE SATISFACTION

Creates a workplace that employees are proud to be part of.



TALENT ATTRACTION & RETENTION

Appeals to skilled professionals, especially younger generations who value sustainability.



Sustainability creates value by **reducing costs**, **improving efficiency**, **driving innovation**, **enhancing reputation**, and **attracting talented people**—ensuring long-term success for the organization and the community.



TRIPLE BOTTOM LINE

LEAF SUSTAINABILITY BALANCES THREE IMPORTANT AREAS LEAF



SOCIAL



ENVIRONMENTAL



ECONOMIC



SOCIAL PERSPECTIVE

Focusing on the people and communities



Fair Labor Practices

Ensure employees and suppliers are treated fairly.



Safe Work Environment

Provide healthy, comfortable, and productive workplaces.



Community Contribution

Support local communities and avoid causing harm.



ENVIRONMENTAL PERSPECTIVE

Focusing on environmental protection



Resource Management

Reduce energy and water consumption.



Waste Reduction

Minimize waste generation.



Recycling and Reuse

Recover materials instead of discarding them.



Carbon Footprint Reduction

Lower greenhouse gas emissions.



Hazardous Waste Reduction

Reduce or eliminate toxic materials.



ECONOMIC PERSPECTIVE

Focusing on financial performance



Lower Operating Costs

Reduce utility and maintenance expenses.



Increase Asset Value

Sustainable buildings often have higher market value.



Improve ROI

Generate stronger returns from investments.



**A BALANCED APPROACH FOR
PEOPLE, PLANET AND PROSPERITY—
TODAY AND FOR THE FUTURE.**



PEOPLE

Building strong, inclusive communities and supporting wellbeing.



PLANET

Protecting our environment and using resources responsibly.



PROFIT

Driving economic growth and long-term value creation.



LEAF SUSTAINABILITY IS NOT JUST A CHOICE, IT'S OUR RESPONSIBILITY. LEAF

MEASURING AND REPORTING SUSTAINABILITY

Data Today, Better Decisions Tomorrow.

METRICS:

Measurements used by Facility Managers to monitor and improve sustainability performance.

1 ENERGY USE INTENSITY (EUI)

Energy used per square meter of building space.

2 WATER CONSUMPTION

Total water used by the facility.

3 WASTE DIVERSION RATE

Percentage of waste recycled instead of sent to landfill.

4 CARBON EMISSIONS

Amount of greenhouse gases generated by facility operations.

5 INDOOR AIR QUALITY MEASURES

CO₂ levels, temperature, and humidity.

WHY IT MATTERS?



Track performance and progress



Identify areas for improvement



Reduce costs and waste



Support transparency and compliance



Build a healthier, more sustainable future

“Measuring helps us understand our impact, report our progress, and create a more **sustainable** future.”



MEASURE. REPORT. IMPROVE. TOGETHER FOR A SUSTAINABLE TOMORROW.

CARBON FOOTPRINT



The total amount of greenhouse gases generated directly and indirectly by an organization, facility, product, or activity.

GREENHOUSE GASES



CARBON DIOXIDE (CO₂)



METHANE (CH₄)



NITROUS OXIDE (N₂O)



HYDROFLUOROCARBONS (HFCs)



SULFUR HEXAFLUORIDE (SF₆)

etc.



UNIT OF MEASUREMENT

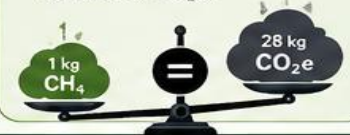
CO₂e (Carbon Dioxide Equivalent).

WHAT IS CO₂e?

All these greenhouse gases is converted into corresponding CO₂ level.

Different greenhouse gases have different impacts on global warming. To compare them easily, they are converted into a common unit called Carbon Dioxide Equivalent (CO₂e).

Methane causes much more warming than carbon dioxide, so a smaller quantity of methane may equal a much larger amount of CO₂e.



PRIMARY FOOTPRINT

Emissions produced directly by sources owned or controlled by the organization.

- Fuel used in company vehicles.



- Diesel generators.



- Natural gas used for heating.



- Fuel consumed by facility equipment.



- On-site combustion processes.



SECONDARY FOOTPRINT

Indirect CO₂ emissions generated throughout the life cycle of products and services purchased by the organization.

- Purchased electricity from utility companies.



- Manufacturing of office furniture.



- Production of building materials.



- Employee business travel.



- Purchased goods and services.



WHY IT MATTERS



Helps understand our impact on climate change.



Supports better decision-making and efficiency.



Reduces costs and improves resource use.



Meets regulatory requirements and standards.



Builds trust and strengthens stakeholder confidence.



Contributes to a sustainable future for all.

MEASURE TODAY. UNDERSTAND IMPACT. TAKE ACTION. CREATE A BETTER TOMORROW.

Every action counts. Every footprint matters.

SOLAR ENERGY IN SCHOOLS

POWERING TODAY'S SCHOOLS FOR A BRIGHTER TOMORROW

THE BENEFITS



REDUCE ELECTRICITY BILLS

Save money and use the savings for what matters most—education.



USE CLEAN AND RENEWABLE ENERGY

The sun is a natural and unlimited source of power.



PROTECT THE ENVIRONMENT

Generate clean energy and help keep our air and planet clean.



REDUCE CARBON FOOTPRINT

Lower greenhouse gas emissions and contribute to a healthier future.



SUPPORT SUSTAINABILITY GOALS

Take meaningful action toward a more sustainable and responsible future.



TEACH STUDENTS ABOUT GREEN ENERGY

Inspire the next generation by providing real-world learning opportunities.

HOW SUNLIGHT BECOMES ELECTRICITY



BRIGHTEN OUR SCHOOL. PROTECT OUR PLANET. **POWER THE FUTURE.**

Together, we can build a cleaner, greener, and smarter tomorrow.

*Small change.
Big impact.
Better future.*



HOW IS SOLAR POWER CALCULATED?

Solar power calculation is simple! *It's all about Power and Time.*



ENERGY
(Wh or kWh)

Total electricity
produced or used

=



POWER
(Watt)

The rate at which
energy is produced

×



TIME
(Hour)

The amount of time
the power is used

COMMON UNITS

- W (Watt) – Power
- Wh (Watt-hour) – Energy
- kWh (Kilowatt-hour) –
1 kWh = 1000 Wh



EXAMPLE:



A solar panel
with a power
output of
400W

×

works for



5 hours

=



Energy Produced
= Power × Time
= 400W × 5 hours
= **2000Wh**
= **2kWh**

*More power
or more time
means more
energy!*

QUICK REFERENCE



Higher power (W)
= More energy



Longer time (hours)
= More energy



Less sunlight
= Less energy



Daily energy (Wh)
÷ 1000 = kWh



Smart calculation
for a sustainable
future!



UNDERSTAND THE SUN. CALCULATE THE POWER. BUILD A **GREENER TOMORROW.**



Solar Project Progress Overview

1

Project Overview

- Budget: AED 58 Million
- 0 CAPEX for GEMS (developer-funded model)
- Scope: 23 schools across Dubai (18 under process -5 scheduled for summer start)
- Project Duration: 7 March 25 - Delayed
- Final energization to deliver >21 GWh annual clean energy

2

Engineering & Approvals

- 21 DM permit received
- DEWA status: 19 approved – remaining 2 in process
- Waterproofing completed at 6 sites (CIS, AKIS, MTS, WSO-1, GWA, TMS)

3

Installation Breakdown

11,298 kWp total installed/ planned solar capacity with additional capacity to be installed for new schools

- Car Parks 17 schools
- Bus Parks 5 schools
- Rooftops 20 schools

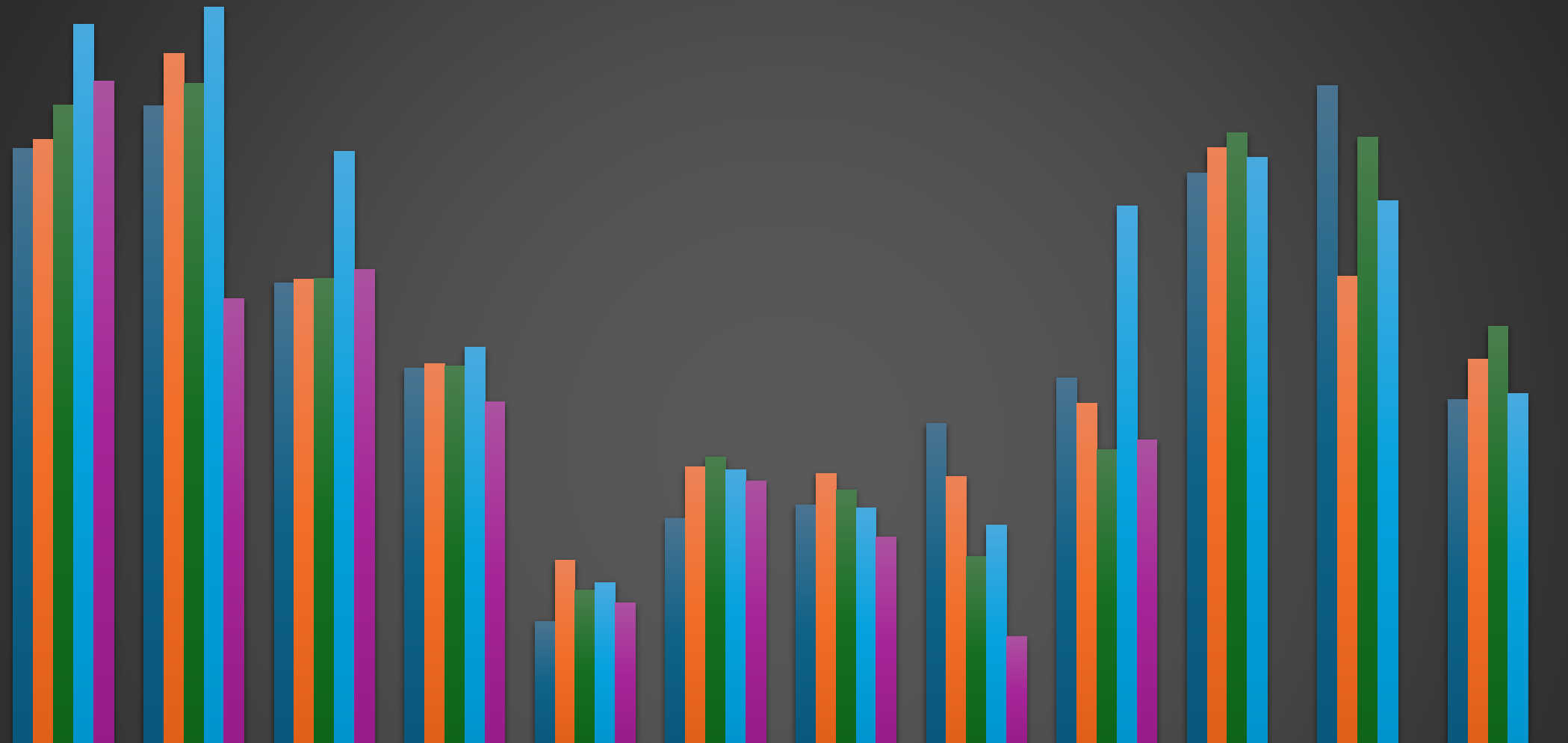
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Electrical & Commissioning

- Electrical Work and Testing & Commissioning completed for 12 schools
- Remaining 2 pending DEWA final approval
- BCC received for 13 schools
- Generation started at 11 sites: GWA1 & 2 – TMS – CIS – MTW – WSO2 – GFM – OOW – GMA – RDS – AKIS

S.No.	School Code	Project Capacity	Location Installation				DM Permit	DEWA Permit	BCC	DEWA Meter Installed	Status completion
			Car Park	Bus Park	Rooftop	EV Charger					
1	GNS	584.04	✓	✓	✓		✓				90%
2	GFS	809.1	✓		✓		✓				95%
3	AKIS	406.1	✓		✓	Already available	✓	✓	✓		97%
4	MTW	634.26	✓		✓	Already available	✓	✓	✓		100%
5	FPS	579.38	✓		✓	✓	✓	✓	✓		97%
6	WSO-1	513.36	✓		✓	✓	✓	✓			97%
7	WSO-2	605.74	✓		✓	✓	✓	✓	✓		100%
8	DAA	267.22			✓	Already available	✓	✓			90%
9	CIS	414.16	✓		✓		✓	✓	✓	✓	100%
10	GWA-1	437.72	✓		✓	✓	✓	✓	✓	✓	100%
11	GWA-2	402.38		✓	✓		✓	✓	✓	✓	100%
12	GMA	775	✓				✓	✓	✓		95%
13	TWS	455.08			✓		✓	✓	✓		90%
14	RDS	295.12	✓	✓	✓		✓	✓	✓		95%
15	OOW	377.58		✓	✓		✓	✓			90%
16	GFM	605.74	✓	✓	✓	Already available	✓	✓	✓		100%
17	MTS	470.58	✓		✓	✓	✓	✓	✓		90%
18	TMS	320.54			✓		✓	✓	✓	✓	100%
19	SRI	595.2			✓		✓	✓			15%
20	WSD	482.98			✓		✓	✓			15%
21	OOD	369.52	✓		✓		✓	✓			15%
22	GFH	570	✓								5%
23	WIN	463.76	✓		✓						5%

DEWA – TWS Electricity Consumption (Kwh)



	September	October	November	December	January	February	March	April	May	June	July	August	
■ 2021-22	191263.2	205022.4	148241.6	120740.8	39636	72535.2	76909.6	103195.2	117787	183246	211474	110749	
■ 2022-23	194026	221623	149290	122147	59142	89067	87033	86062	109449	191472	150258	123671	
■ 2023-24	205142	212025	149651	121590	49624	92366	81726	60507	94786	196200	194959	134247	
■ 2024-25	230994	236622	190237	127429	52073	88220	75978	70454	172821	188361	174531	112770	
■ 2025-26	212749	143023.8	152385	110039	45587	84704	66573	34709	97880				





WASTE COLLECTION AT TWS

Every piece of waste has a place. Let's work together for a cleaner, greener future!



WHAT ARE THE DIFFERENT WASTE COLLECTIONS AT TWS?

PAPER WASTE

- Worksheets
- Newspapers
- Cardboard boxes
- Used notebooks
- Office paper



PLASTIC WASTE

- Plastic bottles
- Food containers
- Plastic packaging
- Plastic bags (where accepted)



METAL WASTE

- Aluminium cans
- Metal containers



E-WASTE

- Batteries
- Computer accessories
- Electronic devices
- Printer cartridges



ORGANIC WASTE

- Fruit peels
- Food leftovers
- Garden waste



GENERAL WASTE

- Non-recyclable materials
- Contaminated packaging
- Tissues and sanitary waste



BENEFITS OF WASTE COLLECTION AND SEGREGATION

ENVIRONMENTAL BENEFITS

- Reduces landfill waste
- Conserves natural resources
- Reduces pollution
- Protects wildlife and ecosystems
- Supports a circular economy



ENERGY BENEFITS

- Saves energy used in manufacturing new products
- Reduces carbon emissions



SCHOOL BENEFITS

- Keeps the campus clean and safe
- Creates environmental awareness
- Supports sustainability goals
- Encourages responsible citizenship



STUDENT BENEFITS

- Develops environmental responsibility
- Builds lifelong sustainable habits
- Encourages leadership through sustainability initiatives



RESPONSIBILITIES OF THE SCHOOL COMMUNITY

STUDENTS

- Use the correct waste bins.
- Reduce, Reuse, and Recycle whenever possible.
- Avoid littering.
- Participate in sustainability initiatives and campaigns.
- Encourage peers to follow sustainable practices.



TEACHERS

- Promote waste segregation in classrooms.
- Reduce unnecessary printing.
- Integrate sustainability into learning activities.
- Act as role models for students.



SUPPORT STAFF

- Ensure waste is collected and disposed of correctly.
- Maintain cleanliness of waste collection areas.
- Report overflowing bins or waste management issues.



OPERATIONS & FACILITIES TEAM

- Provide clearly labelled waste bins.
- Coordinate with waste collection and recycling vendors.
- Monitor waste management practices.
- Conduct awareness campaigns and audits.



PARENTS

- Encourage sustainable habits at home.
- Send reusable water bottles and lunch containers.
- Support school sustainability initiatives.



★ TOGETHER, WE CAN MAKE TWS A CLEANER, GREENER AND MORE SUSTAINABLE SCHOOL FOR TODAY AND TOMORROW! ★

REDUCE REUSE RECYCLE



THINK GREEN



ACT RESPONSIBLY



RESPECT OUR ENVIRONMENT

Small actions today, a better tomorrow!

DULSCO GROUP

1935
2025

مجموعة دلسكو

GEMS SCHOOLS

Waste Management Report

Sep to Dec-2025

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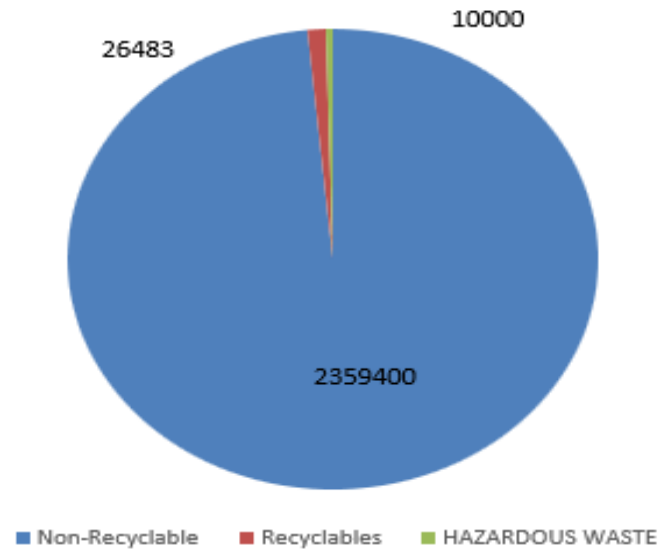
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Waste Composition

Waste Type	Kg	Tons	Percentage
Non-Recyclable	2359400	2359.40	98.48%
Recyclables	26483	26.483	1.11%
HAZARDOUS WASTE	10000	10	0.42%
Grand Total	2395883	2395.883	100%

Waste Composition & Diversion

Waste Generation - Waste Type



Waste Diversion

1.52%

Waste Material Breakdown

Waste Stream	Kg	Tons	Percentage
GENERAL WASTE	2359400	2359.40	98.48%
PLASTIC	543	0.54	0.02%
PAPER	5985	5.99	0.25%
OCC (CARDBOARDS)	10171	10.17	0.42%
MIX GLASS	15	0.02	0.00%
SCRAP METALS	24	0.02	0.00%
MIXED RECYCLABLES	9745	9.75	0.41%
HAZARDOUS WASTE	10000	10.00	0.42%
Grand Total	2395883	2395.883	100%

No. of Skip & Collection

Skip Type	No.of Bins	No.of Trips
1.1 CBM	3395	991
Cage	115	115
2.5 CBM	2570	1303
4.5 CBM	165	87
5 CBM	179	160
10 CBM	10	10
Grand Total	6434	2666

THE WESTMINSTER SCHOOL DUBAI

YOUNG MINDS, GREEN FUTURES.

TOGETHER
WE STRIVE
FOR A
SUSTAINABLE
FUTURE



Learning Today, Sustaining Tomorrow.

Small actions today create a better
tomorrow for our school and our planet.

SMALL ACTIONS, BIG IMPACT



BRING REUSABLE
BOTTLES



SAVE
ENERGY



SAVE
WATER



KEEP OUR
CAMPUS GREEN



USE BINS &
DON'T LITTER



USE REUSABLE
LUNCH CONTAINERS



THE 3 Rs



REDUCE

Use less.
Avoid waste.



REUSE

Use again.
Make the most
of what we have.



RECYCLE

Sort waste
correctly.
Give it new life.

At TWS, we care.
We act responsibly.
We inspire change.
We create a better future
together.



ONE SCHOOL.
ONE PLANET.
ONE RESPONSIBILITY.

Be respectful
of our environment

Be responsible
citizens

Be the change

Together, we make TWS a greener place for all!