Soaked Streets, Smoggy Skies:

Post-Rain Pollution Peaks in Jabodetabek



Air Quality Report November_2023







nafas & air quality



What is nafas?







How does nafas the obtain air quality data?







How does nafas interpret the air quality data?





What is PM2.5?

PM2.5 refers to air pollution particulate matter with a diameter of less than 2.5 micrometers. This size is about 36 times smaller than the diameter of a grain of sand.

Diameter in milimicron





WHY IS **PM2.5** HAZARDOUS TO US?

Due to its microscopic size, PM2.5 particles cannot be effectively filtered by our body. Inhaling PM2.5 can lead to serious health issues, including premature birth, asthma exacerbation, coughing, respiratory distress, coronary heart disease, diabetes, and even lung cancer.











Sources of **Air Pollution**

A significant portion of air pollution results from human activities. What are these activities that emit pollutants?

How we mobilize



How we produce







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How we generate power

How we manage our waste



Nature can also be one of the sources





Properties of Air quality

HYPERLOCAL



Air pollution can change rapidly, increasing when there are pollution sources in the vicinity and the atmospheric conditions are conducive to the buildup of pollutants.





The Influence of Atmospheric **Conditions on Air Quality**



either enhance air quality by dispersing pollutants or







Why 'Greening' Isn't Sufficient to **Combat Air Pollution**





Deposition

Deposition is the process where a substance transitions from a gas phase directly to a solid phase without passing through a liquid phase. This mechanism enables plants to 'trap' particulate pollutants, like PM2.5.





Why 'Greening' Isn't Sufficient to **Combat Air Pollution**

A study from the US EPA indicates that trees remove only about 0.24% of PM2.5 from the air.

Satellite imagery shows an abundance of green areas in South Tangerang, particularly on the west side.

However, according to the Nafas monthly report from May 2023, despite South Tangerang being synonymous with 'green' residential areas, pollution levels remain high.

Sumber: fs.usda.gov



What is the conclusion?

SIMPLY GREENING AN AREA IS NOT AN EFFECTIVE SOLUTION TO THE **AIR POLLUTION PROBLEM.**







Thousands of studies have conclusively demonstrated that prolonged exposure to air pollution can adversely affect the physical and cognitive development of children.



Health Impacts of Air Pollution

SH	IORT-TERM EFFECT
	Brain ADHD (From infancy to childhood)
	Respiratory Influenza, Rhinitis
	Heart Heart attack, arrhythmia
	Lung Asthma, Bronchiolitis
	Skin Atopic dermatitis (eczema), acne, early aging
ource: Co	moiled from various research journals







ADHD, influenza, and heightened asthma attacks are just three of the numerous adverse effects of PM2.5 on children



Increased risk of ADHD

Children exposed to PM2.5 concentrations of $16 \,\mu\text{g/m}^3$ during their first three years have heightened risk potentials. This risk escalates further when PM2.5 levels surpass 50 $\mu\text{g/m}^3$.

Increased risk of influenza

There's a 15% higher risk with every exposure to PM2.5 levels exceeding 10 μ g/m³ over a span of 6 days.

Source

Source

Increased risk of asthma attack

There's a 3.6% increased risk for every 10 μ g/m³ rise in PM2.5 exposure.

Source



 $\{ \cap \}$



Glosarium

a

ATMOSPHERE

A layer of gases that envelops our Earth. We reside in the lowermost layer of the atmosphere, known as the troposphere, which extends from the Earth's surface up to about 12 km.

b

ANNUAL THRESHOLD LIMIT VALUE

This is an air quality standard established by the World Health Organization (WHO). In 2021, the WHO revised the annual threshold limit value, reducing it from 10 μ g/m³ to 5 μ g/m³. The daily threshold limit value (covering a 24-hour period) is set at $15 \mu g/m^3$.

BOUNDARY LAYER

This atmospheric layer extends from the Earth's surface up to 2 km and can vary over time.

g

GROUND-LEVEL AIR POLLUTION

Refers to air pollution that is found very close to the Earth's surface



h

HYPERLOCAL POLLUTION

A phenomenon where air pollution is highly concentrated in a specific, limited area due to the presence of local pollution sources within that vicinity.

p

PM2.5

articles in air pollution that are 2.5 micrometers in size, which is about 36 times smaller than the diameter of a grain of sand.

S

SENSITIVE/VULNERABLE GROUP

This refers to individuals who are particularly susceptible or at a higher risk of being affected by certain conditions. Examples include children, the elderly, individuals with allergies, and those suffering from asthma.

TRAPPING LAYER

An atmospheric layer that has the capacity to hold or trap pollutants near the Earth's surface, thereby increasing detectable pollution levels in that area. This is commonly known as the inversion layer.

















november 2023 air quality data





City Rankings

This ranking is determined by the cities with the highest PM2.5 concentration levels in November 2023.

Good

- Moderate
- Unhealthy for Sensitive Group
- Unhealthy

1	Greater Band
2	South Tanger
3	Tangerang
4	Bekasi
5	Depok
6	Bogor
7	Greater Surab
8	DKI Jakarta
9	Semarang
0	Greater Malar
11	D.I Yogyakarta
2	Bali
3	Thousand Isla
4	Belitung
	WHO
	0 10





City Rankings

This displays the rankings of cities based on their PM2.5 pollution levels, providing a comparison with the previous month's data.

South Tangerang

Greater Bandung

Tangerang

DKI Jakarta

Greater Malang

D.I Yogyakarta

Semarang

Greater Surabaya

Kep. Seribu

- Good
- Moderate
- Unhealthy for Sensitive Group
- Unhealthy



- Bogor
- Depok
- Bekasi
- Belitung
 - Bali



Greater Bandung South Tangerang Tangerang Bekasi Depok Bogor **Greater Surabaya DKI Jakarta** Semarang Greater Malang D.I Yogyakarta Kep. Seribu Bali Belitung





Modetate

(n) NAFAS

Top 10 Most Polluted Location

This ranking identifies the sensor points with the highest PM2.5 concentrations in November 2023 and compares them with the conditions from the previous month.

THIS MONTH'S RANK



- Good
- Moderate
- Unhealthy for Sensitive Group
- Unhealthy

PREVIOUS MONTH FREG

ng	60	RE- ENTRY	
gerang	59	2	
jo	59	RE- ENTRY	(
imahi	58	RE- ENTRY	
Tangerang	57	1	Ç
n Tangerang	56	3	
<	55	9	1
st Bandung	55	8	
atan, West Jakarta	55	10	
Bandung	55	NEW	•

National Ambient Air Quality Standard — 15

WHO Annual Guideline — 5

20







Cigarettes Equivalence

November 2023

The equivalence to cigarette smoke is determined by the daily average of PM2.5.

A concentration of 22 μ g/m³ is equivalent to the exposure from one cigarette.

*) Measurement methodology is based on berkeleyearth.org



- l **Ciroyom** (BDG)
- 2 Punggul (SDA)
- 3 Karangsari (TNG)
- 4 Karangmekar (CMH)
- 5 Serpong (TANGSEL)
- 6 Babakan (TANGSEL)
- 7 **Bedahan** (DPK)
- 8 Kertamulya (BDG)
- 9 Lebak Siliwangi (BDG)
- 10 Kembangan Selatan (JAKBAR)

NUMBER OF CIGARETTES



Top 10 Nost Polluted Hours

The ranking is based on the time when the worst PM2.5 pollution occurs on October 2023

Should PM2.5 levels reach the "Hazardous" category, do not panic. Stay alert to notifications, such as those related to mosquito fogging activities. However, remember that spikes in PM2.5 levels can result from various factors, not just one. Stay informed and vigilant!

- Good
- Moderate
- Unhealthy for Sensitive Groups
- Unhealthy
- Very Unhealthy
- Hazardous



Alert Nafas

ADA YANG BARU DI APLIKASI NAFAS!

Selain **alert fogging nyamuk**, sekarang kamu juga bisa tahu penyebab tingkat polusi udara di lokasi tersebut meningkat karena adanya alert **kegiatan pembangunan (konstruksi)**.

KITA KENALAN SATU-SATU YUK!

Polusi yang disebabkan **fogging nyamuk** biasanya menyebabkan PM2.5 melonjak drastis secara tiba-tiba (bahkan hingga ke kategori "Beracun"), namun akan kembali normal dalam waktu singkat.

Sementara itu, **alert pembangunan (konstruksi)** cenderung bertahan lama dan terjadi di waktu-waktu yang relatif sama.

Misalnya aktivitas pembangunan di sekitar sensor Pattimura, Jakarta Selatan menyebabkan kenaikan PM2.5 secara rutin pada malam hingga pagi hari.























November Shades of Grey







Blue Skies in November







Air Quality Slightly Improves, Although Unhealthy Air Periods for Sensitive Groups Still Predominate

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With the onset of the rainy season, there's been a slight increase in the occurrence of moderate or fairly good air quality. The frequency of unhealthy air quality has also decreased by 77%.

Total Hours

> CHANGES IN NUMBER OF "UNHEALTHY" HOURS





INSIGHT N<u>0</u> 1

Unified Decline

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There's been a noticeable decrease in unhealthy air quality compared to the previous month, indicating a gradual reduction in high pollution spikes. However, this doesn't mean the air quality is completely clean, as the entire Jabodetabek region still faces the threat of unhealthy air quality, particularly for sensitive groups.

- Good
- Moderate
- Unhealthy for **Sensitive Group**
- Unhealthy



INSIGHT N<u>0</u> 1

Greater Malang Records the Highest Decrease in Pollution

Among regions outside Jabodetabek, Greater Malang ranks first in experiencing the most significant decrease in high pollution ('Unhealthy' air quality) throughout November.

While not as extensive as Malang, other cities such as Greater Bandung, D.I. Yogyakarta, Semarang, and Surabaya have also witnessed a reduction in pollution, ranging between 14-68%.

- Good
- Moderate
- Unhealthy for **Sensitive Group**
- Unhealthy





As the Year Ends, Fresh Air Enhances Tourist Areas

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Jakarta Records Lowest Pollution in Jabodetabek for November



INSIGHT

Nº 2

†∩ †



Pollution Decreases Across Regions INSIGHT Nº 2 as Year Ends





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Greater Malang Sees Drastic Pollution Drop in November



INSIGHT

Nº 2

Is This Fog or Pollution? INSIGHT N0 3

Photo of skyscrapers in Jakarta surrounded by fog went viral on Tuesday, December 5 at 06.00. The owner of the photo said AQI was 165-177 when the photo was taken. It looks like fog, but the color tends to be gray. At the same time, pollution tends to be high

Unhealthy for Sensitive Groups Unhealthy • Very Unhealthy

Smoggy Jakarta: Foggy and Highly Polluted

The results of the Nafas team's analysis show that when the photo was taken, pollution levels that morning were quite high in several areas of Jakarta, with an average hourly PM2.5 of 55 µg/m³ (Unhealthy for Sensitive Groups) to 90 µg/m³ (Unhealthy).

The fog photographed is 'fog' mixed with pollutants. Air pollution was observed to be quite high, this indicates that pollutants are trapped near the surface supported by inversion layer conditions which often appear in the morning.

Tangerang Fog Conceals Pollution

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A viral report from residents highlighted fog enveloping areas in Tangerang (BSD, Lippo Karawaci, and Gading Serpong) on Tuesday morning (7/11). Simultaneously, the Nafas sensor in Serpong indicated high PM2.5 pollution levels at 59 ug/m3, categorized as Unhealthy.

So, is it fog or pollution?

"The fog's white color suggests it's likely water vapor, not smoke haze. However, fog can still trap pollutants," explains Dennish Ari (@encepdenis), a Weather & Climate Risk Analyst.

A Tale of Two Skies

Once again, viral photos showcase the contrasting state of Jakarta's skies within just a few days. A sky that was initially bright blue turned grey with dense pollution smog two days later.

A Tale of Two Skies

In just two days, pollution worsens threefold due to weaker winds.

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A Tale of Two Skies

The weakening of winds during this period significantly influenced the rapid deterioration in pollution levels.

Wind plays a crucial role in the dispersal of pollutants. While it can help clear air pollution from an area, it can also 'contribute' to air pollution in another.

Check out the sensors timelapse here.

"Surabaya 'City of 1000 Parks': **Expectation vs. Reality**

Expectation: Reality: 😁

Air quality in Surabaya improved at the start of November, but pollution levels rose again in the second and fourth weeks. According to Nafas monitoring, pollution doubled in the last week of the month.

As long as there are numerous and unaddressed pollution sources, the presence of many parks cannot solve the pollution problem. Plants can absorb gaseous pollutants, but particulate pollution like PM2.5 remains freely in the air.

PM2.5 $(\mu q/m^3)$ 50 40 30 20 10 \mathbf{O}

Why Is There Still Pollution After the Rain?

In late November, Jabodetabek began experiencing frequent rains, including extreme rainfalls. The air quality on rainy days varied, ranging from moderately good to unhealthy, influenced by the timing of the rain, the extent of the rain clouds, and wind conditions.

According to Nafas monitoring, air quality slowly worsened from November 25, quadrupling in just 12 hours after the rain. This indicates that rain can only 'clean' the air temporarily.

INSIGHT N<u>0</u> 8

Clear Skies in DKI, **High Pollution in Rainy Tangsel**

On November 29, while DKI Jakarta enjoyed clear skies, South Tangerang was under grey clouds! As many residents noted the clear weather in DKI Jakarta, Tangsel and Tangerang experienced grey, overcast skies. The air quality there was 85% worse compared to DKI during the evening rain in Tangsel.

Why was the air better in the non-rainy area at the same time? This is due to the rain cloud system 'drawing' winds from various directions. Consequently, pollutants accumulated around the rain cloud areas were detected at high levels. Air quality in Ciputat improved significantly at night after the rain.

sekilas kota

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11	D.I Yogyakarta
2	Bali
3	Thousand Isla
4	Belitung
	WHO
	0 10

PM2.5

Greater Bandung November 2023

Embarking on the top of the pollution rankings, the Greater Bandung's air tend to be unhealthy. Two areas with the most unhealthy PM2.5 concentrations are Ciroyom, Bandung City, with $60 \,\mu g/m^3$, and Karangmekar, Cimahi, with 58 μ g/m³.

Unfortunately, there is no area with sufficiently good air quality within the Greater Bandung area during November 2023.

- Good • Moderate Unhealthy for Sensitive Group
- Unhealthy

PM2.5

South Tangerang November 2023

South Tangerang is no longer the most polluted city in November. However, air contamination remains relatively high. Serpong still falls under the unhealthy category with a PM2.5 level of 57 μ g/m³.

On the other hand, South Tangerang also has areas with relatively good air quality, such as Serpong Utara and Alam Sutera.

- Unhealthy for Sensitive Group
- Unhealthy

Tangerang November 2023

Despite no longer being at the top, Tangerang still experiences unhealthy air pollution, especially for sensitive groups. The most unhealthy area is indicated in Karangsari, Tangerang City, with a level of 55 μ g/m³, which is 11 times above the WHO standard!

However, there is still a glimmer of hope in some areas of Tangerang with relatively good air quality, such as Periuk, where the PM2.5 level is $33 \mu g/m^3$.

- Good
- Moderate
- Unhealthy for Sensitive Group
- Unhealthy

Bekasi November 2023

Over the past month, Bekasi has been providing less than favorable air conditions for its residents, particularly those belonging to sensitive groups. The range of PM2.5 pollution in the area varies between 38-50 μg/m³.

However, there is still hope in certain areas of Bekasi, such as Harapan Indah (35 μ g/m³) and Jatibening (28) μ g/m³), where the air quality is relatively good.

- Good
- Moderate
- Unhealthy for Sensitive Group
- Unhealthy

Depok November 2023

Bedahan continues to be the most polluted location in Depok. The average concentration of PM2.5 in that area reaches $55 \,\mu\text{g/m}^3$, classified as unhealthy.

This figure is almost twice that of the lowest area in Depok, which is Cipayung with a PM2.5 level of 28 μg/m³. Meanwhile, there is also air with a moderate status in Beji at $34 \,\mu g/m^3$ and Limo at $32 \mu g/m^3$.

DEPOK VS 100 **DKI JAKARTA** 80 60 40 3% 20 worse than **DKI Jakarta** 0

- Good
- Moderate
- Unhealthy for Sensitive Group
- Unhealthy

Bogor November 2023

Despite being named as the "rainy city," it turns out that the downpour has not been able to sweep away pollution in this city. There are nine areas with unhealthy air quality for sensitive groups, ranging from Gunung Sindur (52 µg/m³) to Bogor Barat (35 μg/m³).

On the flip side, there is relatively good air quality in four locations: Bojong Kulur, Bogor Timur, Sentul City, and Gunung Geulis. This is relatively more than in other cities.

- Good
- Moderate
- Unhealthy for Sensitive Group
- Unhealthy

Greater Surabaya November 2023

Surabaya, known as the "city of a thousand parks," is unfortunately not exempt from poor air quality. The majority of areas in Surabaya and its surrounding areas (Gresik & Sidoarjo) experience less than healthy air conditions, particularly for sensitive groups.

The area with the highest PM2.5 contamination is Punggul, Sidoarjo, with 59 μ g/m³, while the lowest is in Jemur Wonosari, Surabaya, with 28 μ g/m³.

- Good
- Moderate
- Unhealthy for Sensitive Group
- Unhealthy

East Jakarta November 2023

Moving into the Jakarta region, East Jakarta has many areas with unhealthy air conditions for sensitive groups, with only two locations having relatively good air quality! The two areas with the most unhealthy air are Cibubur and Cawang, with PM2.5 levels of 54 μ g/m³.

Meanwhile, the best air quality in East Jakarta can be found in Cipinang Besar and Duren Sawit, with PM2.5 levels ranging from 30-33 μg/m³.

- Good
- Moderate
- Unhealthy for Sensitive Group
- Unhealthy

West Jakarta

November 2023

Switching to West Jakarta, the level of air pollution in this area appears to vary significantly.

Almost all regions in West Jakarta experience unhealthy air conditions for sensitive groups, except for the Taman Sari area with a PM2.5 level of $31 \mu g/m^3$.

• Unhealthy

Central Jakarta

November 2023

Although slightly improved by one percent, air contamination in Central Jakarta still falls within the category of unhealthy for sensitive groups.

There is one exception, which is Menteng Teuku Umar with a PM2.5 level of 35 µg/m³, considered to have relatively good air quality.

- Good
- Moderate
- Unhealthy for Sensitive Group
- Unhealthy

South Jakarta

November 2023

Leading by 3% compared to the average of DKI Jakarta, South Jakarta has relatively fluctuating air conditions. Most of the Nafas sensors in this area indicate less than healthy conditions for sensitive groups, with peaks reaching 53 μ g/m³.

On the other hand, there are also four areas with relatively good air quality, with the lowest PM2.5 recorded in Rawa Barat at 30 µg/m³.

- Good
- Moderate
- Unhealthy for Sensitive Group
- Unhealthy

SOUTH JAKARTA VS **DKI JAKARTA**

24 29 14 19 9 **NOVEMBER**

South Jakarta

November 2023

Leading by 3% compared to the average of DKI Jakarta, South Jakarta has relatively fluctuating air conditions. Most of the Nafas sensors in this area indicate less than healthy conditions for sensitive groups, with peaks reaching 53 μ g/m³.

On the other hand, there are also four areas with relatively good air quality, with the lowest PM2.5 recorded in Rawa Barat at 30 µg/m³.

- Good
- Moderate
- Unhealthy for Sensitive Group
- Unhealthy

T	1	Rempoa Permai			
WOR	2	SCBD			
S	3	Kemang Utara			
	4	Kemandoran			
	5	Karet Semanggi			
	6	Brawijaya			
	7	Lebak Bulus			
	8	Cipedak			
	9	Hang Tuah			
	10	Gelora			
	11	Kemang Timur			
	12	Tanjung Barat			
	13	Ragunan			
	14	Grogol Selatan			
	15	Cipete Selatan			
	16	Lenteng Agung			
	17	Kebayoran Lama Utara			
	18	Pattimura			
	19	Pakubuwono 2			
	20	Jati Padang			
WHO Annual Guideline — 5					
		0 10 20 30 40			

PM2.5 (µg/m³)

50

60

20

30

40

10

0

60

50

North Jakarta

November 2023

Being one of the areas with the best air quality in DKI Jakarta, North Jakarta is in a better position, 3% above the average.

However, one area, Penjaringan, occupies a region with the most polluted air, with PM2.5 exceeding more than 9 times the WHO maximum limit (5 μ g/m³).

- 5 6 Unhealthy for Sensitive Group
- Unhealthy

Moderate

Good

Semarang November 2023

Generally, air quality in Semarang tends to be better compared to DKI Jakarta. However, almost every area monitored by the Nafas sensor network falls into the category of 'Unhealthy for Sensitive Groups,' except in Ngaliyan, Semarang City.

PM2.5

- Good
- Moderate
- Unhealthy for Sensitive Group
- Unhealthy

Greater Malang November 2023

The level of air pollution in Malang Raya has decreased significantly, landing it in a position 15% better than DKI Jakarta. However, Sekarpuro remains the most polluted area with a PM2.5 concentration reaching 40 µg/m³. Other regions tend to have relatively good air quality.

PM2.5 (µg/m³)

- Good
- Moderate
- Unhealthy for Sensitive Group
- Unhealthy

Special **Region of** Yogyakarta

November 2023

The cultural city of Yogyakarta has relatively friendly air conditions, with the majority of Breath sensors indicating air quality in the range of 26-34 µg/m³. However, there is one area that is quite polluted, namely Sayidan, with a PM2.5 level exceeding the WHO standard by 9 times (45 μg/m³).

- Good
- Moderate
- Unhealthy for Sensitive Group
- Unhealthy

Bali November 2023

Securing the third position on the podium for the best air quality, Bali demonstrates air conditions that are 35% better than the average in **DKI Jakarta!** Air pollution also shows a trend that tends to decrease towards the end of November.

- Good
- Moderate
- Unhealthy for Sensitive Group
- Unhealthy

Thousand Islands

November 2023

Air pollution in the Thousand Islands shows a notable decreasing trend in November. The air quality in Desa Laguna, Thousand Islands, indicates a relatively low PM2.5 concentration at $24 \,\mu g/m^3$, which is considered quite healthy!

- Good
- Moderate
- Unhealthy for Sensitive Group
- Unhealthy

WHO Annual Guideline— 5

0

Belitung November 2023

The champion for the cleanest air goes to Belitung again! With an average air quality 68% healthier than DKI Jakarta, this island region successfully maintains its air quality at 13 μ g/m³, well within the National Ambient Air Quality Standard (15 μ g/m³).

- Moderate
- Unhealthy for Sensitive Group
- Unhealthy

WHO Annual Guideline — 5

15

Almost All Outdoor Air Pollution Can Penetrate Indoors

Given the tiny dimensions of PM2.5 particles, they can easily seep through doors and windows in homes, schools, and campuses. In office buildings, pollutants might infiltrate through malfunctioning central air conditioning systems, causing us to breathe air that's nearly as polluted as the outside atmosphere.

Browse the articles below for a deeper understanding of indoor air quality and its implications for our health.

How Indoor Air Pollution Impacts Us in Offices

NAFAS

How Much Pollution **Gets Inside Our Offices**

Clean Air at the Office: Just a Benefit or Should It be a Standard

How Indoor Pollution Impacts Our Children in Schools

Implementing Clean Air Zones: **A Proven Solution for Enhancing Office Air Quality**

CAZ Stories is a series of articles that spotlight the significant impact of Clean Air Zones on diagnosing and improving indoor air quality issues for businesses in Indonesia.

Browse the articles below to read some of the inspiring CAZ Stories.

CAZ Stories: Nafas Improved Indoor Air Quality by 89% at Mighty Minds Preschool

CAZ Stories: How Nafas Reduced Indoor Pollution by 70% at AC Ventures Office

CAZ Stories: A Threefold Improvement in Indoor Air Quality at Pace Performance

Wear. Breathe. Support

The "Itu Bukan Kabut" (That's Not Fog) T-shirt is now available at is tokopedia

This isn't just any T-shirt; it's a statement of care, woven from sustainable TENCEL[™] Lyocell and Modal fibers, ensuring you look good while doing good.

A portion of the sales will directly contribute to the **Clean Air Schools Fund**, dedicated to providing healthy air inside the classrooms across Indonesia.

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