RACE TO Zero
UNIVERSITIES & COLLEGES

PRESIDENT UNIVERSITY

RACE TO ZERO
REPORT 2025

2025

TIMELINE of ACHIEVEMENT

PRESIDENT UNIVERSITY

02

02

FEBRUARY 2025

President University was declared accredited "Excellent" on February 11, 2025. This accreditation is valid until December 20, 2028.

07

JULY 2025

On July 10, 2025, President University secured 1st place in the WURI Top Innovation ranking in the Entrepreneurial Spirits category, and achieved 2nd place in the Crisis Management and Infrastructure/Technology categories. In addition, President University ranked 220th among the top 400 innovative universities.

11

NOVEMBER 2025

At the end of 2025, specifically on November 18, 2025, President University achieved a 5-stars rating in the QS Stars assessment. This 5-stars designation is valid until July 31, 2028.

In addition, President University is proud to present its international recognition achievements based on the following events:

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Executive Summary

President University has formally committed to the global Race to Zero initiative by targeting net-zero greenhouse gas emissions before 2050, supported by institutional regulations, governance structures, and an operational Climate Action Plan 2025–2026. The university's total carbon footprint in 2025 is estimated at 773.2 tCO_2 per year, with the largest contributions coming from electricity consumption (Scope 2) and transportation activities (Scope 1 and Scope 3). This baseline serves as the reference point for systematic and measurable emissions reduction across all campus operations. The Climate Action Plan 2025–2026 translates institutional commitments into concrete actions across five priority sectors: Infrastructure & Green Open Space, Energy & Smart Buildings, Waste Management & Circular Economy, Sustainable Transportation, and Education, Research & SDGs. Key initiatives include the expansion of green open spaces and vegetation, the implementation of smart building systems and solar energy, the strengthening of the Integrated Waste Management Center (IWMC), the gradual transition toward low-emission and electric transportation, and the deep integration of sustainability into academic programs, research, and community engagement. These actions are supported by dedicated investments in green infrastructure, energy systems, and waste management.

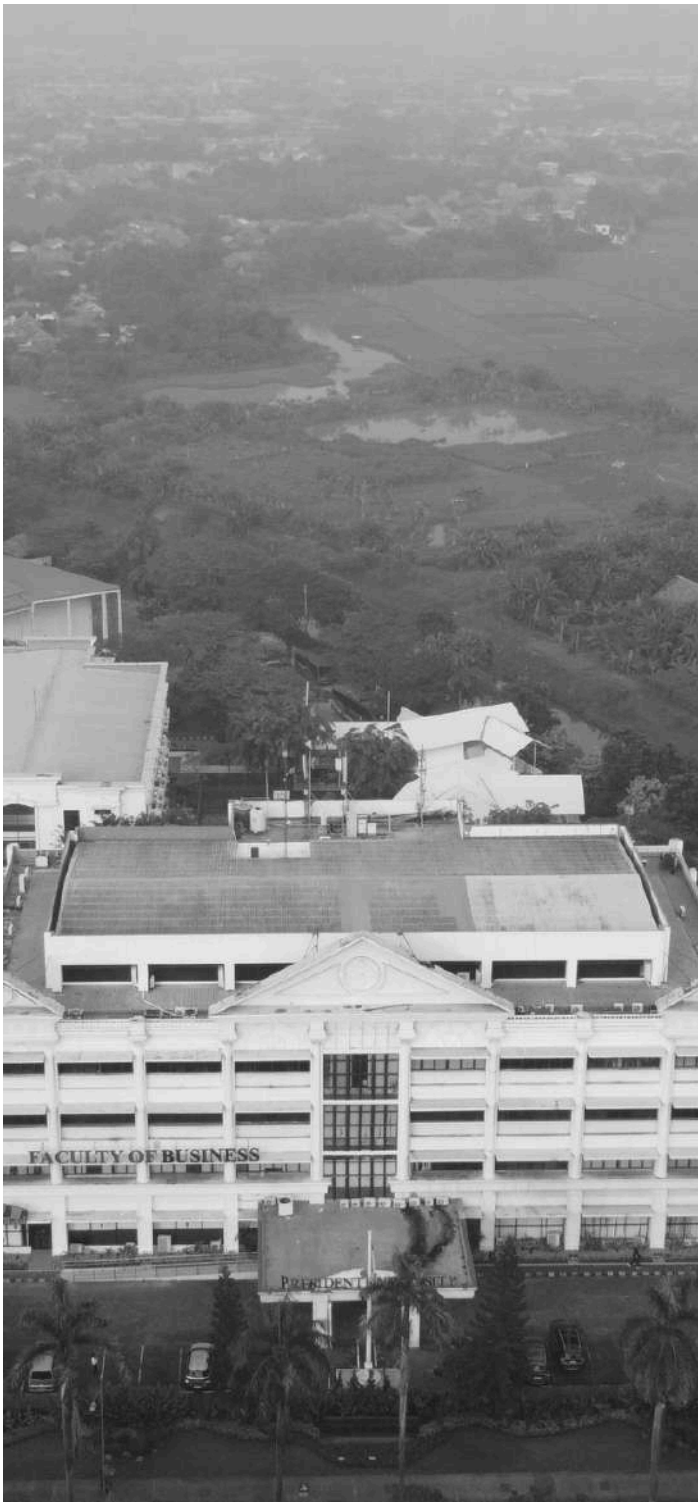
In the academic domain, sustainability has been embedded through 108 sustainability-based courses, 17 sustainability-related study programs, an average of 38 sustainability publications per year, and more than 10 green community service projects annually. Over the past three years, 75 alumni have entered green jobs, demonstrating the real-world impact of sustainability education and innovation. Together, these academic, operational, and governance efforts position President University not only as an institution committed to reducing emissions, but also as a driver of climate leadership, innovation, and sustainable development in higher education.

Moving forward, President University is committed to continuously strengthening implementation, monitoring progress through annual reporting, and scaling up key mitigation programs to ensure steady progress toward a low-carbon, climate-resilient, and net-zero campus. This Executive Summary reflects the university's readiness to contribute meaningfully to national and global climate goals in alignment with the Race to Zero pathway.

Institution Profile

President University is a private higher education institution located in Jababeka Education Park, Cikarang, West Java, Indonesia, with a total campus area of 134,163.54 square meters, comprising the Main Campus (107,811.26 m²) and the Faculty of Medicine (26,352.28 m²). As of 2025, the university serves approximately 7,650 members of the academic community, including 6,825 students and 825 academic and administrative staff, forming a dynamic environment for education, research, and community engagement.

A defining feature of President University is its strong green campus character. More than 92.94% of the campus area is dedicated to green open space, including 63,506 square meters of active campus forest used for research and community service, and 18,061 square meters of cultivated vegetation areas. This extensive green infrastructure supports biodiversity conservation, improves microclimate resilience, and contributes to natural carbon sequestration, forming a solid ecological foundation for the university's long-term transition toward a low-carbon and net-zero campus in line with the Race to Zero commitment.



RACE TO ZERO COMMITMENT

President University has formally declared its commitment to support the global Race to Zero campaign by pursuing net-zero greenhouse gas emissions before 2050, covering emission reduction across Scope 1, Scope 2, and Scope 3. This commitment is integrated into all core sectors of university operations, including infrastructure development, energy management, sustainable transportation, green procurement, sustainable financing, and climate-oriented education and research. The pledge is legally reinforced through Rector's Regulation No. 14 of 2024 on Sustainable Funding and Donations Policy and Rector's Regulation No. 29 of 2024 on Sustainable Investment and Procurement Policy, ensuring alignment between institutional financial decisions and climate objectives.

To strengthen governance and ensure long-term implementation, President University established the Sustainable Development Committee in 2025, which is responsible for coordinating climate action across university units, evaluating progress, and reporting to university leadership. This commitment is further operationalized through the Responsible and Sustainable Lifestyle Policy (2024) and the Climate Action Plan 2025–2026, which translate institutional goals into concrete programs in renewable energy expansion, energy efficiency, greenhouse gas reduction, integrated waste and water management, low-emission transportation, and sustainability-based education and innovation, forming a solid foundation for the university's transition toward a low-carbon and net-zero campus.

RACE TO ZERO COMMITMENT

Key Institutional Commitments under Race to Zero
President University commits to the following actions:

- Achieve net-zero greenhouse gas emissions before 2050 in alignment with global climate targets.
- Reduce emissions across all scopes:

Scope 1: Direct campus operations
Scope 2: Electricity consumption
Scope 3: Transportation, waste, procurement, and other indirect sources

- Integrate climate policies into core campus sectors, including:

-Sustainable infrastructure development
-Energy efficiency and renewable energy deployment
-Low-emission and sustainable transportation systems
-Green procurement and sustainable investment
-Sustainable financing and responsible donation mechanisms

- Strengthen institutional governance for sustainability, through:

-The Sustainable Development Committee
-Periodic monitoring, evaluation, and public reporting

- Mainstream climate action into education, research, and community service, by:

-Embedding sustainability into curricula
-Supporting climate-related research and innovation
-Promoting sustainable lifestyles across the academic community

- Implement the Climate Action Plan 2025–2026 as the main operational roadmap for:

-Green infrastructure
-Renewable energy expansion
-Greenhouse gas reduction programs
-Integrated waste and water management
-Climate education and outreach

Transportation Emissions (Scope 1 & Scope 3)

Transportation activities constitute the second-largest source of emissions at President University. Emissions originate from internal shuttle services as well as the daily commuting activities of private vehicles entering the campus. Based on the 2025 calculation, emissions from transportation sources are estimated as follows:

0,6 ton CO_2
CAMPUS SHUTTLE BUS

38,4 ton CO_2
PRIVATE CAR

9,6 ton CO_2
MOTORCYCLE

The total transportation-related emissions in 2025 reached approximately 48.6 tons of CO_2 per year, with private cars representing the dominant contributor. These emissions fall under Scope 1 and Scope 3, as they involve both direct university-operated transport and indirect commuting activities by the campus community.

Transportation Emissions (Scope 1 & Scope 3)

2. CO2 emission from transportation (Bus/ Shuttle)

= (Number of shuttle bus in your University * total trips for shuttle bus service each day * approximate travel distance of a vehicle each day inside campus only (in kilometers) * 240/100) * 0.01 Number of shuttle = 2 Total trips/day = 24 Travel distance-inside campus only = 0.5 km

CO2 from the shuttle = 0.6 metric ton

3. CO2 emission from transportation (Car)

= (Number of cars entering your University * 2 * approximate travel distance of a vehicle each day inside campus only (in kilometers) * 240/100) * 0.02 Number of cars = 800 Travel distance-inside campus only = 0.5 km

CO2 from cars = 38.4 metric ton

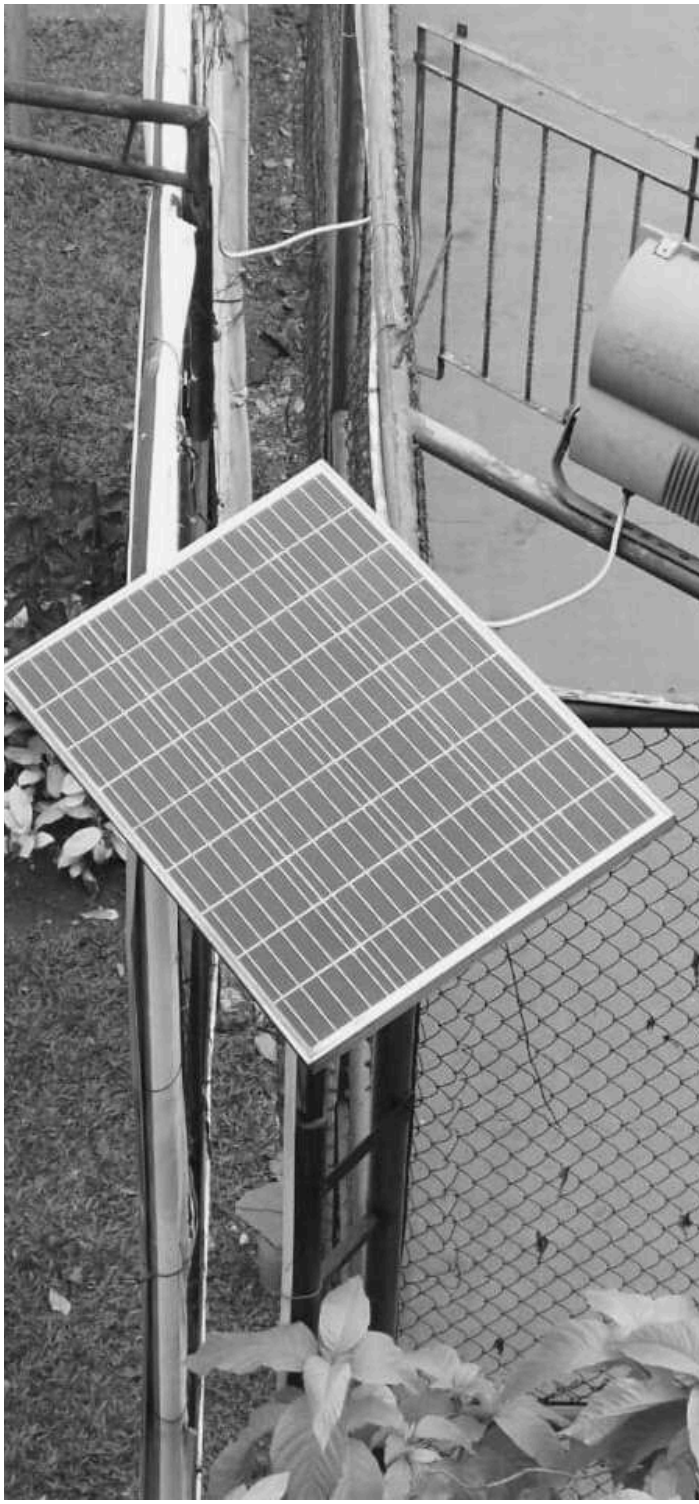
4. CO2 emission from transportation (Motorcycle)

= (Number of motorcycles entering your University * 2 * approximate travel distanceof a vehicle each day inside campus only (in kilometers) * 240/100) * 0.01 Number of motorcycles = 800 Travel distance-inside campus only = 0.25 km

CO2 from motorcycles = 9.6 metric ton

Electricity Emissions (Scope 2)

In 2025, President University recorded a total annual electricity consumption of 820,130 kWh. Using an official emission factor of 0.84, the total greenhouse gas emissions generated from electricity use amounted to approximately 724.62 tons of CO_2 per year. This figure confirms that electricity consumption remains the largest single contributor to the university's carbon footprint, reflecting the high dependency of campus operations on grid-based electricity supply.



724.62 tons of CO_2 per year

CO2 EMISSION FROM ELECTRICITY USE

These emissions originate primarily from academic buildings, laboratories, administrative offices, air-conditioning systems, lighting infrastructure, and supporting campus facilities. This baseline data serves as a critical reference point for future energy efficiency measures, renewable energy expansion, and smart building implementation as outlined in the university's Climate Action Plan 2025–2026.

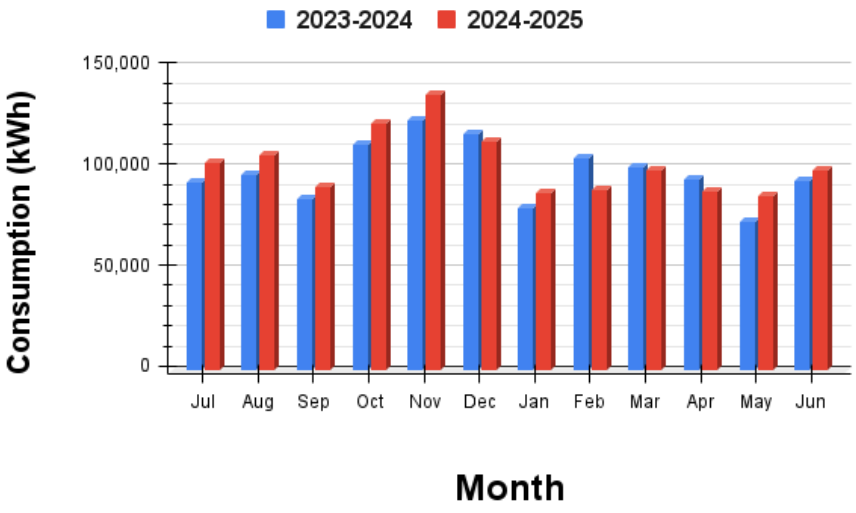
Electricity Emissions (Scope 2)

1. CO2 emission from electricity use

= (electricity usage per year in kWh/1,000) x 0.84

=(820,130/1000) x 0.84

724.6176 metric ton



Carbon Footprint

By combining emissions from electricity consumption (Scope 2) and transportation activities (Scope 1 & Scope 3), the total estimated carbon footprint of President University in 2025 reached approximately **773.2 tons of CO_2 per year.** This figure represents the official baseline for the university's Race to Zero transition pathway and will be used to measure annual progress in emissions reduction.

Moving forward, emission reduction efforts will focus on:

- Energy efficiency and smart building systems,
- Expansion of renewable energy through solar power,
- Transition to low-emission transportation, and
- Behavioral change across the academic community,

as part of a structured strategy toward achieving a low-carbon and net-zero campus.

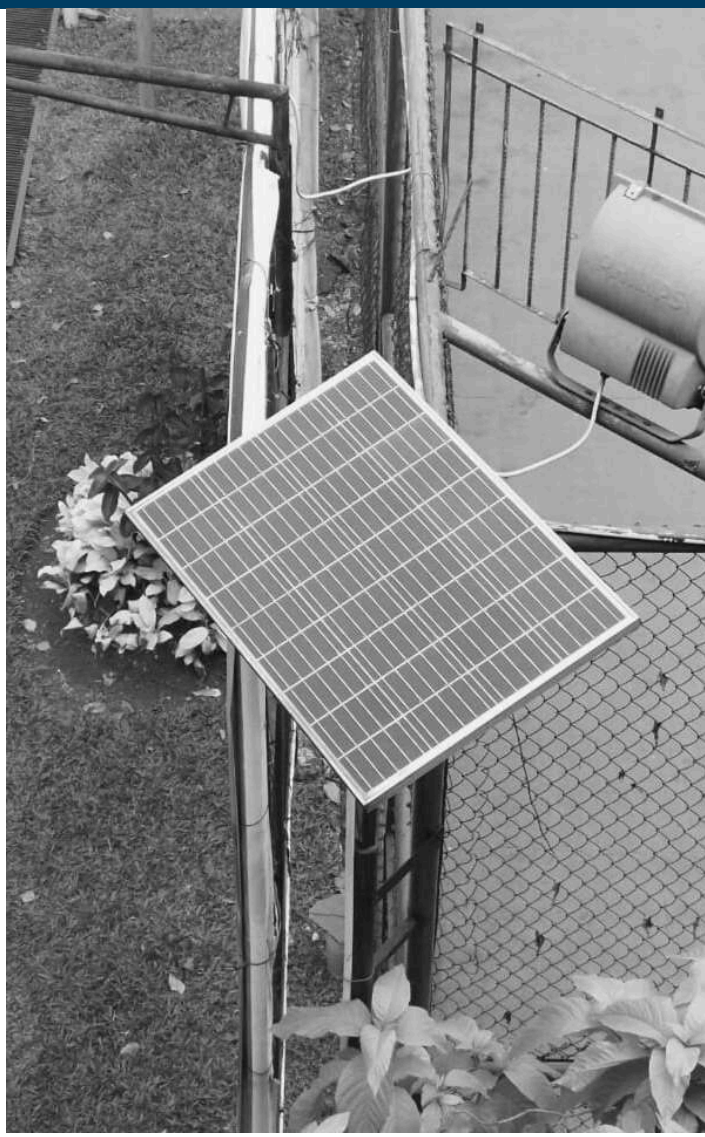
Renewable Energy (Solar Panel)

President University has initiated the transition toward clean energy through the installation of a 100 Wp solar photovoltaic (PV) system as an initial pilot for renewable energy deployment on campus. Based on performance estimates for the Cikarang region, the system generates a net annual electricity output of approximately 146 kWh per year, equivalent to an average daily production of around 0.40 kWh per day. This production level already accounts for system efficiency losses due to temperature effects, inverter efficiency, shading, and cable transmission.

146 kWh/year
NET ANNUAL ELECTRICITY OUTPUT

0.40 kWh/ day
AVERAGE DAILY PRODUCTION

< 1%
CONTRIBUTION OF RENEWABLE ENERGY



Despite this positive first step, the current contribution of renewable energy to the university's total electricity consumption remains below 1%, when compared to the annual campus electricity demand of more than 820,000 kWh. This indicates that the existing solar installation is still at a demonstration and early adoption stage, rather than at a scale that can significantly offset grid-based electricity emissions.

Recognizing this gap, President University has identified large-scale solar PV expansion as a strategic priority under the Climate Action Plan 2025–2026, particularly through the development of rooftop solar systems for outdoor lighting, academic buildings, and supporting facilities. The planned expansion is expected to substantially increase the share of clean energy in the campus energy mix, reduce dependency on fossil-based grid electricity, and contribute directly to the long-term objective of achieving a low-carbon and net-zero campus in alignment with the Race to Zero commitment.

Waste Management and Circular Economy

President University generated approximately 133,048 kg of organic waste, 193,043 kg of inorganic waste, and 1,493 kg of hazardous (B3) waste per year. Currently, more than 75% of inorganic waste and hazardous waste have been properly managed through recycling systems and compliant treatment facilities. However, organic waste treatment remains at an early stage, with only 1–25% currently processed, indicating a major opportunity for improvement, particularly in reducing methane emissions and strengthening circular resource utilization under Scope 3 emissions.

133.048 kg/years
ORGANIC WASTE PER YEAR

193,043 kg/years
INORGANIC WASTE PER YEAR

193,043 kg/years
HAZARDOUS AND TOXIC WASTE (B3) PER YEAR

To address this challenge, President University has set a clear target to increase organic waste processing to at least 50% by 2026 through the strengthening of the Integrated Waste Management Center (IWMC) as the central waste processing facility on campus. This initiative supports the university's transition toward a circular economy approach, where waste is converted into valuable resources such as compost and recyclable materials, while simultaneously contributing to indirect emission reduction in line with the Race to Zero commitment.

Waste Management

President University Waste's Calculation

Type of waste	amount (ton)		
	Produced		reduced
	Last year	This Year	
organic			
food waste	73.4	72.9	0.5
leaf, etc.	61.5	60.8	1.5

Type of waste	amount (ton)		
	Produced		reduced
	Last year	This Year	
inorganic non toxic			
- paper	35.4	33.2	2.2
soft plastic	99.5	94.3	5.2
hard plastic	75.5	65.9	9.6

Type of waste	amount (ton)		
	Produced		reduced
	Last year	This Year	
toxic	0.1626	0.12474	0.03786
electronics	0	0	0
lab Chemicals	0.1626	0.12474	0.03786

Water Consumption and Conservation

President University is supported by a strong natural water environment, including an on-campus natural water body of approximately 4,160 m^2 and a water absorption area exceeding 30% of the total campus area. The wastewater management system currently operates at the primary treatment level, and the university has not experienced any clean water scarcity, indicating that existing water supply management is adequate for daily academic and operational needs.

4,160 m^2
ON-CAMPUS NATURAL WATER BODY COVERING

30%
WATER ABSORPTION AREA

However, in line with the Net Zero and climate resilience agenda, President University recognizes the need to further enhance water sustainability through the development of grey water recycling and rainwater harvesting systems. These initiatives aim to improve water-use efficiency, reduce dependence on freshwater sources, and lower the indirect environmental footprint of campus operations, while supporting the implementation of the Climate Action Plan 2025–2026 in alignment with the Race to Zero commitment.

Open Space Ratio

President University shows strong performance in the Setting & Infrastructure category, with a green open space ratio exceeding 80%, more than 18,000 m² of cultivated vegetation, and a water absorption area above 30%. The campus is also fully equipped with essential supporting facilities, including disability-accessible infrastructure, security systems, and health facilities across all buildings.

80%
GREEN OPEN SPACE RATIO

18,000 m²
CULTIVATED VEGETATION

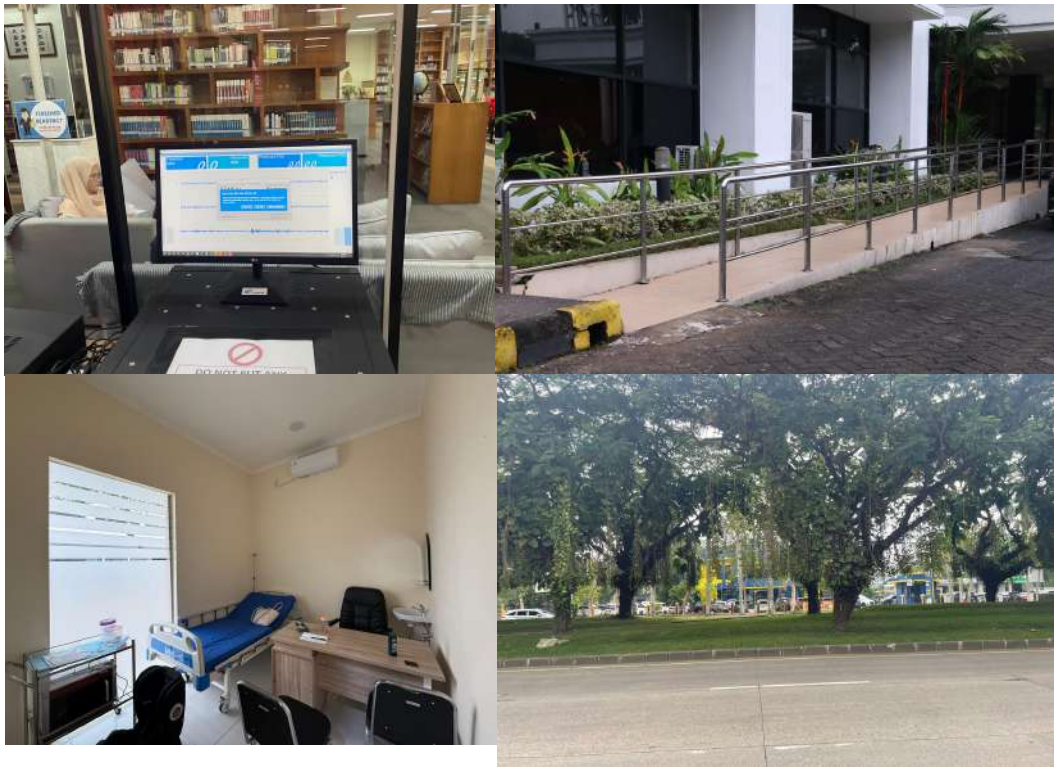
30%
WATER ABSORPTION AREA

These conditions provide a solid physical foundation for the university's Net Zero transition, as extensive green coverage helps reduce the urban heat island effect and supports biodiversity and natural carbon absorption. The availability of large permeable and green areas also offers significant potential for further landscape enhancement and climate-resilient campus development in line with the Race to Zero commitment.

Open Space and Disability Facilities

President University Open Space and Vegetation Area Maps

President University Disability, Health, Security Facilities



Education, Research & SDG's

Sustainability is embedded in the academic system of President University through 108 sustainability-based courses delivered across 17 study programs related to sustainable development. These academic offerings strengthen climate literacy, environmental responsibility, and sustainability-driven innovation across disciplines, supporting the university's contribution to the Sustainable Development Goals (SDGs).

108
SUSTAINABILITY-BASED COURSES

USD 61,522
RESEARCH FUND

38
PUBLICATIONS PER YEAR

75
ALUMNI IN GREEN JOBS

In the area of research and community engagement, the university allocates an annual sustainability research fund of approximately USD 61,522 and produces an average of 38 sustainability-related publications per year. More than 10 environmentally focused community service projects are implemented annually, and over the past three years, 75 alumni have been employed in green jobs, reflecting the real-world impact of sustainability education and research.