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Greening the campus

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S centres that focus on knowledge-sharing and creation, universities are bustling hubs visited and inhabited by hundreds, f not thousands, of people daily.

if not thousands, of people daily. In the midst of the core business of teaching and learning as well as conducting research, university campuses are congested with traffic and busy with activities such as events; daily churning out of print and paper; and the consumption of

food and utilities.

To counter these challenges, many tertiary institutions are stepping up initiatives to conserve the environment.

Universiti Putra Malaysia (UPM), for example, already has a green mandate in place that aligns campus activities with its sustainability efforts.

Vice-chancellor Professor Datin Paduka Datuk Dr Aini Ideris said UPM's commitment to the preservation of the environment is reflected in effective environmental management, coaching, the curriculum and quality management-based systems. "As a research university, UPM leverages on its capabilities to measure its impact, embed green input into its teaching and plan solutions and strategies within our industry and community to advocate the need to reduce impact on the environment locally and nationwide," she added. An alternative road for private vehicles

An alternative road for private vehicles going to and from Kuala Lumpur, Petaling Jaya and Damansara runs through Universiti Malaya (UM). It is concerned about the long-term impact of the campus carbon footprint as well as consumption behaviours regarding food, water and electricity. UM Eco Campus Secretariat and UM Living Labs chairperson Professor Dr Sumiani Yusoff said many efforts have been made to understand and promote sustainability at the university and its surrounding areas.

"There is a need to address environmental challenges. It is a necessity for a university to embark on sustainable campus pathways and deviate from laissez-faire and business-as-usual attitudes," she added.

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Seeding awareness of sustainability

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Many argue that with vast land on its property coupled with a long history of agriculture education, UPM has little concerns about sustainability and environmental impact.

But this is not so, said Aini.

"Being green is not only about land size. It is about creating the awareness and spirit to reduce impact on the climate. It is also continuous effort, strategy and how we can steer mindsets towards green living lifestyles.

"We have long realised we need to create a green, sustainable campus. We have had a UPM green policy since 2011 to review the situation and decide on what needs to be done, she added

UPM endeavours to raise awareness on sustainable development; preservation of biological diversity in natural and man-made environment in the university; and reduction in the release of greenhouse gases, which contribute to climate change, through the efficient use of energy to prevent wastage and the use of alternative energy to lower dependence on nonrenewable energy.

The policy also stipulates to reduce the production of all types of residues from campus activities through the 4R (reduce, reuse, repair, recycle) programme; reduce the use of private motor vehicles by improving disabled-friendly public transport on campus and between it and the public transport hub in its vicinity, and provide safer lanes for cyclists and pedestrians; and adopt the concept of sustainable devel-

UNIVERSITAS INDONESIA GREENMETRIC WORLD UNIVERSITY RANKING 2018: MALAYSIA

University	Ranking
Universiti Putra Malaysia	32
Universiti Malaya	36
Universiti Teknologi Malaysia	70
Universiti Malaysia Sabah	71
Universiti Utara Malaysia	76
Universiti Malaysia Pahang	97
Universiti Tunku Abdul Rahman	146
Universiti Teknikal Malaysia Melaka	148
Universiti Kebangsaan Malaysia	198
Universiti Sains Malaysia	225
Jabatan Pendidikan Politeknik Malaysia	335
Universiti Malaysia Perlis	338
Universiti Malaysia Terengganu	370
Universiti Tun Hussein Onn Malaysia	479
International Islamic University of Malaysia	505
Islamic Science University of Malaysia	606
Polytechnic of Mersing	634
Universiti Pendidikan Sultan Idris	687
Source: http://greenmetric.ui.ac.id/overall-ranking-2018/	



Aini Ideris (second from left) at the fabric recycling centre.

opment in the management and development planning of the campus.

"Through the Joint Research Project on Re-

planted in Serdang main campus as well as Bin-

through measuring indicators of forest health

"Every year we do mega planting of more

UPM has set up Serdang Biomass Town, a

centre for the recycling of used cooking oil into

biodiesel oil for vehicles and machinery on cam-

pus, for the neighbouring residential community

exchange, a byproduct of the recycling process.

This has proven to be hugely popular and dona-

UPM Faculty of Environmental Studies hous-

es Putra Wastebank which takes in fabric for recycling into other products via third party co-

operation. It takes note of recyclable items cred-

ited in the Wastebank record book and "pay"

sellers in the form of bicycle rental hours at the

UPM encourages students to ride bicycles to

"We have dedicated bicycle lanes and cov-

ered pedestrian lanes. The university com-

munity observes 'no vehicle day' on Saturday.

"We have reorganised student placements

UPM collaborates with Toyota in the use of

During registration week for the academic year,

with 70 per cent getting rooms in residential col-

electric vehicles for 'transport as well as re-

smoking at all eateries and the impending ban

Health Ministry and the Ministry of Energy, Sci-

ence, Technology, Environment and Climate

students get a rebate for bicycle purchase.

search with the Faculty of Engineering.

tions also come from outside Sri Serdang."

"Those who donate get organic fertilisers in

and sustainability of foreign resources.

than 10,000 landscape plants on campus."

INITIATIVES With the policy as a guide, a number of innova-

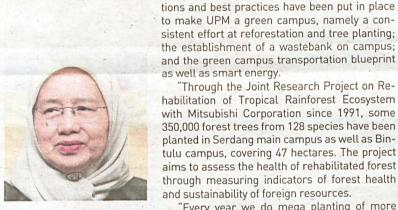
of Sri Serdang.

end of a semester

reduce carbon on campus.

leges closest to their faculty.

by the government



Being green is not only about land size. It is about creating the awareness and spirit to reduce impact on the climate.

AINI IDERIS UPM vice-chancellor





ers to come up with solutions that help environment conservation.

A UPM researcher has conducted research to produce straws that can degrade faster than existing ones. Talks are underway with the industry to pave the way for production.

CAMPUS IN THE CITY

Launched in 2015, the UM Eco Campus Blueprint guides the institution's green initiatives in eight core areas, namely Landscape and Biodiversity Management, Waste Management, Water Management, Energy Management, Transportation System Management, Green Procurement, Education Management — Environment and Climate Change, and Change Management in Govern-"We welcome moves such as the ban on ance, Participation and Communication.

Sumiani said the blueprint aspires to longon the use of plastic straws recently introduced term commitment from its top management academic and non-academic staff, as well While UPM is a no-smoking campus since as students working as one community in a 2011, environmental friendly policies from the concerted manner towards a more sustainable campus

Short- and long-term action plans are



opportunities to take proactive measures, in stages, as a show of support in promoting UM as one of the prominent eco campus models at the local, regional and international levels in tandem with its status as a leading university in research and education. "UM Eco Campus initiatives

aim to develop a novel campuswide sustainability framework with support from UM Living Labs.

added Sumiani

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A look at the rain harvesting system at the eco surau in UM Academy of Islamic Studies.



UPM encourages students to ride bicycles to reduce carbon on campus.

on the ground, promotion of multi-interand-transdisciplinary research and, most importantly, the labs befit the need of the community for a better campus environ-

UM Living Labs are in their fourth cycle, where solutions are applied on a larger scale throughout the campus. They have already shown more than a reduction of 6,590,000kg carbon dioxide Green House Gases emission, with direct and indirect monetary gains from these collective initiatives amounting to more than RM1.2m after

one year.

"Last year, we soft-launched UM Living Labs Training Modules to mark our long-term commitment in commemorating World Earth Day in April annually. The modules are one of our new collective efforts which emphasise capacity-building based on UM Eco Campus Core Areas." Over the years, UM initiatives,

namely Water Warriors (water management), UM Zero Waste

Campaign (waste management) and The RIMBA Project (landscape and biodiversity management), have attracted numerous participants both local and international. In putting forth sustainability into action,

sharing of best practices - within the community and without — is another important University and Research in the Netherlands

and deployment of sustainability solutions learning curve that UM have to scale con-

Best practices in UM Eco Campus initiatives are embedded in a series of guidelines including: Guideline on Green Waste and Wood Waste Separate Collection and Management for Institutional Area; Guideline on Energy Monitoring and Management for Energy-Saving in UM; UM Campus Transport Guidelines; UM Green Procurement Guidelines; and Eco-Surau Guidelines: Imarah Green Project of Academy of Islamic Studies Surau.

"Each guideline tackles different cambe replicated to suit different scenario and challenges.

BENCHMARKING

In the recently announced Universitas Indonesia GreenMetric World University Ranking (UI Greenmetric) 2018, UPM was placed 32nd in the world, making it Asia's third and second in Southeast Asia. It maintained its first position in the country. UM came in 36t

UI GreenMetric is an annual world university ranking of the current condition and policies related to green campus and sustainability in universities.

In 2018, there were 719 higher education institutions in the rankings with 18 from Malaysia. Top place went to Wageningen while University of Nottingham was second and University of California Davis, third,

To date. UI GreenMetric is the first and only world university ranking system based on voluntary participation that focuses on campus sustainability performance.

It ranks universities performance in six categories: Setting and Infrastructure (15 per cent), Energy and Climate Change (21 per cent), Waste Management (18 per cent), Water Management (10 per cent), Transportation Management (18 per cent) and Education and Research (18 per cent).

Aini said every participant has a level playing field and a specific role to play within the academia in contributing towards sustainability.

"If you read in between the lines, the university is under scrutiny — not only its ommunity but also the top management.

"Most UPM initiatives focus on transport, recycling and waste treatment apart from green space. Our strength is in these areas. However, this year we will try to improve in other areas.

UPM's success in being ranked first in the country for nine consecutive years is the result of team effort with dedicated person in charge in every department tasked with this index

"The whole campus contributed to this ranking initiative by participating in our sustainability activities. We believe in inculcating values in future leaders of this nation and our international students where the impact can be seen in a bigger scale."

As for UM, it maintained renowned status as Asia's first Most Sustainable University in City-Centre Set-up. UM rose in three significant achievements: Best Water Mangement in Malaysia, Best Education and esearch (Sustainability) in Malaysia, and Best Waste Management in Malaysia.

Sumiani said: "At UM, we believe that (any) ranking system is important for us to learn, reflect and improve on our progress over the years."

With a campus population of 33,041 equivalent to 1.84 per cent of Kuala Lumpur population inhabiting a main campus area of 2.99 million square metres, UM achievements in this campus sustainability assessment is "an important milestone".

The campus community must reflect on its way of using limited resources while optimising productivity and performance."

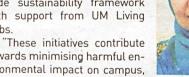
Universitas Indonesia in its website said it believes by drawing the attention of university leaders and stakeholders to the rankings, more focus will be given to combat global climate change, improve energy and water conservation, and promote waste recycling and green transportation.

On academia's role in conservation pus sustainability issues at hand and can and environment protection, Sumiani said: "Universities occupy a unique position in society. UM, with its pool of experts and academia cutting across disciplines and faculties, has a critical role in the creation and dissemination of knowledge.

Universities occupy a position of neutral and trusted stakeholders in society.

"Academia has a key role to play in conservation and environmental protection. It has the capacity and responsibility to guide and lead society at the local, national, and international level.

"In UM, we are stepping up to lead in this area by welcoming all academia to embark on our campus sustainability journey in various ways such as research projects, community engagements, faculty programmes, student mentoring and many other platforms



towards minimising harmful environmental impact on campus, especially by decreasing carbon Sumiani Yusoff emission, to drive UM to be one

of the prominent eco campuses in the nation and the world. The initiatives cover mainly, but are not limited to, the grounds of UM's main campus of 360 hectares,"

UM Living Labs enable the integration of research and development, demonstration