



## HEAR FROM ENVIRONMENTAL ENTHUSIASTS

“Together we can leave an impact that lasts beyond our years in University.”

Hello, I am Alyssa Yip, the Sustainability Executive of NTUSU!

At NTUSU, we drive positive change for all our 26,000 undergraduates. Additionally, NTUSU organised our first Green Carnival in August 2023, promoting environmental awareness and sustainable practices.

I envision a campus where sustainability is woven into the fabric of our community. It's not just about a few recycling bins and solar panels; it's about a sustainable mindset that permeates every aspect of our university life.

Let's embark on this journey together—small actions today can lead to a sustainable and thriving future for all of us.



*Alyssa Yip  
Sustainability Executive,  
NTU Student Union*

## CAMPUS HAPPENINGS



### NTU rises to 50<sup>th</sup> position in QS World University Rankings: Sustainability 2024

NTU Singapore is ranked 50<sup>th</sup> in the latest QS World University Rankings: Sustainability 2024, released on 5<sup>th</sup> Dec 2023. This is an improvement from the 129<sup>th</sup> position last year, which is made possible through the efforts of the entire NTU Community.

Click [HERE](#) for more details.



### Cloop Textile Recycling Bin by NTUSU

Introducing NTU's first textile recycling bin! Did you know, in 2022, Singapore discarded 254,000 tonnes of textiles, but only 2% got recycled? Let's change that! Spot the Cloop textile recycling bin at The Hive and donate your clean, dry clothes, bags, shoes and accessories. This recycling initiative aims to reduce waste by encouraging the upcycling of clothes and is brought to you by [NTU Students' Union](#) (NTUSU).

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Click [HERE](#) for more details.

## EDUCATION



### NTU to offer specialised graduate business degree for sustainability management from 2024

NTU Singapore has introduced an [Executive Master of Science in Sustainability Management](#) program to empower professionals with the expertise needed to address sustainability challenges and promote sustainable practices in organizations. Set to be offered in August 2024 by NTU's [Nanyang Business School](#), the programme will delve into diverse topics such as climate change and sustainable finance. The programme was launched at the Indo-Pacific Business Summit, during which NTU NBS also signed a Letter of Intent with the Stockholm School of Economics to foster exchange and research activities, contributing to the programme's academic delivery.

Click [HERE](#) for more details.

## RESEARCH HIGHLIGHTS



### Launching the world's first tropical data centre testbed

The Sustainable Tropical Data Centre Testbed (STDCT), a groundbreaking initiative jointly led by NTU Singapore and the National University of Singapore (NUS), is now operational, marking a major milestone in data centre (DC) innovation. Funded by the National Research Foundation as part of the Research, Innovation and Enterprise (RIE) 2025 plan, the initiative aims to bring together academia and industry partners to accelerate the implementation of innovative and sustainable DC cooling solutions tailored for the tropical climate. The STDCT, hosted by the NUS College of Design and Engineering, was officially launched by the Minister of State for Trade and Industry, Mr. Alvin Tan.

Click [HERE](#) for more details.



### Powering Singapore's Kusu Island with just solar power

In 2019, the Singapore Land Authority (SLA) signed a research collaboration agreement with [Energy Research Institute @ Nanyang Technological University \(ERI@N\)](#) on a \$2 million project for research and deployment of customized renewable energy systems on offshore islands. Deployment commenced on Kusu Island in 2020, featuring a solar-powered desalination system and a 140kW solar PV system. Results show

that the lagoon-based solar panels is more efficient than conventional roof top based solar panels. This project is a part of NTU 2025 Strategic Plan which aims to tackle some of humanity's greatest challenges, such as climate change and sustainability.

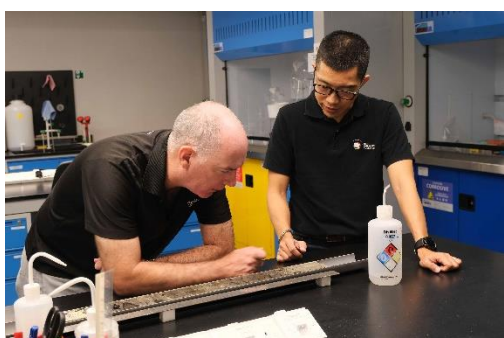
Click [HERE](#) for more details.



### **Unveiling both potentially harmful and promising resources of microbes in ocean plastic trash**

Scientists from NTU discovered both threats and valuable resources in the thriving colonies of bacteria and fungi on plastic trash along Singapore's shores. The study focused on the 'Plastisphere,' the ecological community formed when microorganisms attach to ocean-bound plastics. Examining DNA information from plastispheres in 14 Singapore coastal locations, researchers identified potential plastic-eating bacteria alongside harmful microbes. This study was published in the Environment International in September 2023.

Click [HERE](#) for more details.



### **Safeguarding Singapore's coasts against sea-level rise**

A study led by Assistant Professor Stephen Chua and Professor Adam Switzer at NTU Singapore's [Earth Observatory of Singapore](#) reveals fresh insights into the dynamic relationship between rising sea levels and sedimentation, showing that a coast with a high sediment supply, such as Singapore's over the past thousands of years, could mitigate sea level rise. The study found that Singapore's coasts, enriched with a consistent supply of sediment, demonstrated resilience even under accelerated sea-level rise (five millimeters per year), highlighting the protective role of abundant sediment deposition in mitigating the impact of rising sea levels.

Click [HERE](#) for more details.

## **OTHER EVENTS**



### **Arts@Jurong Lake Gardens: RIPPLE**

**Event Date:** 19 Jan-25 Feb 2024

**Details:** Click [HERE](#) for more details

The art exhibition, RIPPLE, is a collaboration between Genevieve Chua and neontights. Presented as part of Singapore Art Week 2024 at Jurong Lake Gardens and Singapore Botanic Gardens, RIPPLE invites viewers to explore the impact of emotions and initiate waves of



balance within Singapore's rich botanical heritage. Viewers, guided by these organic patterns, engage with their emotions amid Singapore's vibrant botany, creating ripples that connect personal feelings to local plant species.



## Shaping a Heat Resilient City Exhibition - A Guided Tour

**Event Date:** Each Weds, Fri till 31 Jan 2024

**Details:** Click [HERE](#) for more details

In the face of global temperature rise due to climate change, maintaining Singapore's liveability is crucial. Join the "Shaping a Heat Resilient City" exhibition tour, led by URA volunteers, to discover how digital technologies, AI, and innovative products are harnessed by planners, architects, and various sectors to design urban spaces for enhanced thermal comfort. The guided tours, starting from 24 Nov 2023, to 31 Jan 2024, showcase Singapore's efforts in actively planning for a cooler and sustainable city.

## YOU CAN GO GREEN TOO!

### Singapore's Sustainability Journey



Click [HERE](#) to find about Singapore's various sustainability initiatives from 1972 till now.

### Carbon Footprint Calculator by SPGroup



Click [HERE](#) to track your carbon footprint and find out how to reduce it.

## STAY IN TOUCH WITH US



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