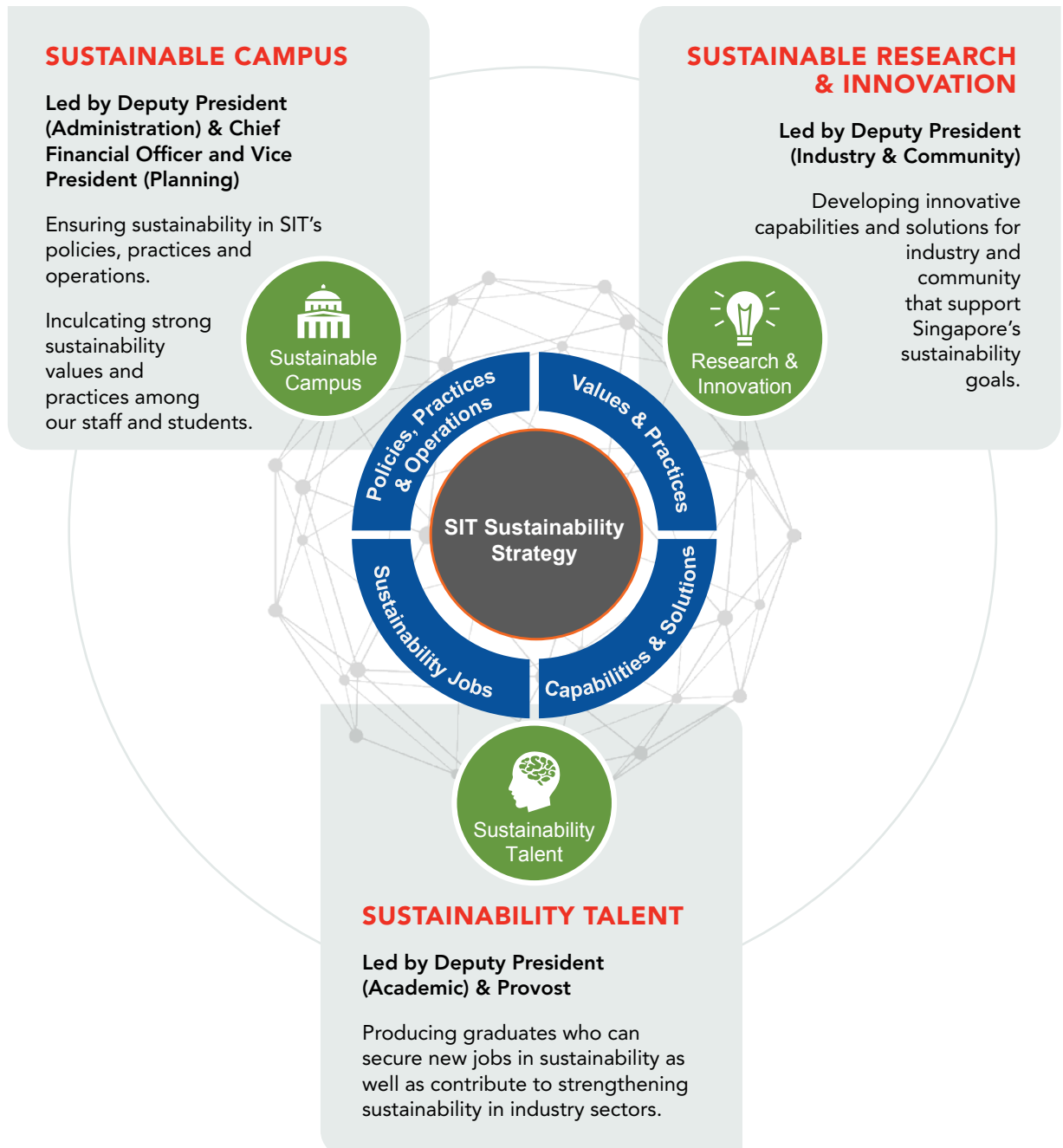


# Sustainability at SIT

## DRIVING SUSTAINABILITY STRATEGY IN THREE FOCUS AREAS

SIT contributes to Singapore's sustainability goals with a focus on 3 areas: **Building a Sustainable Campus, Driving Sustainability Research & Innovation, and Developing Sustainability Talent.**

Each of these focus areas has a dedicated workgroup, chaired by SIT Senior Management members to drive **SIT's Sustainability Strategy**.



## BUILDING A SUSTAINABLE CAMPUS

### ECO-FRIENDLY OFFICES

All offices across the 6 SIT campuses have attained Eco Office Certification awarded by the Singapore Environment Council. This is a recognition of the University's efforts in implementing and championing sustainability in the workplace by increasing eco-consciousness among staff in conserving resources and managing waste.

SIT enhanced its infrastructure through ensuring water and electricity efficiency, and responsible waste management. We also reviewed existing procurement processes and encouraged staff to adopt GreenGov.SG's latest measures when organising events and functions.

### DEVELOPING A SUSTAINABLE CAMPUS AT PUNGGOL CAMPUS

Block E4 Food Court Building achieved the BCA Green Mark Platinum and Super Low Energy (SLE) certification. The building features a hybrid cooling system and a Building Integrated Photovoltaic (BIPV) roof that generates renewable energy. These would result in at least 40% energy savings.

The smart building pools data from various building systems. The first smart solution tracks the building's electrical energy usage to ensure energy consumption does not exceed the SLE threshold. It also includes a calculator to help track and forecast the annual utility budget. The second smart solution automates the building's ventilation and equipment operation based on prevailing weather conditions.



The Block E4 Food Court Building features a Building Integrated Photovoltaic (BIPV) roof that generates renewable energy.

## DRIVING SUSTAINABILITY RESEARCH & INNOVATION

### SUSTAINABILITY ACROSS SIT'S RESEARCH DOMAINS

Sustainability is featured across our 5 strategic translational research domains. These research domains are aligned

with national and economic imperatives, and are bolstered by technology enablers such as AI. By working closely with private and public sector partners, the outcomes from these domains will help to contribute to Singapore's goal of becoming a smart and sustainable nation.



A demonstration of the extrusion machine at the official opening of FoodPlant in April 2022, graced by Deputy Prime Minister and Coordinating Minister for Economic Policies Heng Swee Keat.

### ENSURING SINGAPORE'S FOOD SECURITY

SIT has partnered local companies to develop novel future foods derived from sustainable plant protein ingredients and single-cell proteins through fermentation. In our bid to lower our carbon footprint, we are also refining our technology platforms to enable greener plant protein extraction processes.



(From left) SIT Professional Officers Kwok Kwok Kuen and Raymond Keh, with SITizens Ralph Faller and Axal Ang at the nationwide launch of Bloobox in March 2023 with Dr Amy Khor, Senior Minister of State, Ministry of Sustainability and the Environment & Ministry of Transport, and Mr Wong Kang Jet, Chief Executive Officer, National Environment Agency. (Photo: NEA/Hong Kah North CC/Ms Chan Wai Peng)

### GREEN SOLUTIONS WITH INDUSTRY & PUBLIC SECTOR

Through our Applied Research Centres, such as InnoHub, we also work closely with industry and the public sector to develop innovative and viable sustainable solutions. Spearheaded by National Environment Agency (NEA), a group of students, together with mentors from SIT's InnoHub, worked on conceptualising and developing a recycling receptacle — Bloobox — that was subsequently mass manufactured and distributed to all households in Singapore.

## DEVELOPING SUSTAINABILITY TALENT

### SUSTAINABILITY EDUCATION FROM UNDERGRADUATES TO ADULT LEARNERS

All SIT undergraduates will have a baseline understanding of sustainability concepts through the 'Introduction to Sustainability' micro-module. From AY2023, SIT will also launch a **Minor in Environmental Sustainability** for

undergraduate students of selected programmes, such as the Electrical Power Engineering degree programme.

For adult learners, they will be able to select from over 18 modules that cover sustainability-related topics, from sustainable building engineering to green interior design.

### SUSTAINABILITY AS A CORE VALUE

Our core values support the University's vision and mission. It is the foundation upon how we interact with one another and engage with industry partners.

Last year, we updated our core values to include Sustainability, given how it permeates all our activities — from the education we provide and research we undertake — to how it shapes our policies and operations.

#### Purpose and Agility



- We are purposeful and united in delivering on our mission
- We are agile in responding to disruptions and opportunities

#### Respect and Sustainability



- We respect one another and are open to a diversity of views
- We promote sustainability in our lifestyle and operations, education and research endeavours

#### Integrity and Excellence



- We maintain a high level of professional integrity at all times
- We strive for excellence in all that we do

## SUSTAINABILITY EFFORTS IN FY2022

**JUNE  
2022**

**WORLD  
ENVIRONMENT  
DAY**

Themed 'Only One Earth', SIT organised a series of activities to drive home the message that we only have one planet to call home.

Among the activities organised were a virtual talk, upcycling workshops, a guided tour showcasing food composting at SIT@Dover, as well as a trip to the Sustainable Singapore Gallery.



Mr Shiddalingeshwar Channabasappa Devihosur, Research Engineer (in blue shirt), explained to participants the concept behind SIT's simulated rooftop hydroponic farm that utilises solar photovoltaics.



Participants observed how food waste collected from SIT@Dover food outlets is recycled into compost using a food composter.

The 'Getting Ready for the Green Economy' panel discussion addressed sustainability-related challenges faced by industry, and business solutions implemented by organisations. Over 150 staff, students and alumni also learned more about growing job opportunities in sustainability.

**SEPTEMBER  
2022**

**GETTING READY  
FOR THE GREEN  
ECONOMY**



Panellists discussed the impact of sustainability on a company's performance.

**DECEMBER  
2022**

**CARBON  
MANAGEMENT  
AND  
SUSTAINABILITY  
REPORTING  
TRAINING**

Deloitte conducted the 'Carbon Management and Sustainability Reporting Training' for SIT staff. The workshop aimed to provide an overall understanding of sustainability and carbon management, and helped staff understand the evolving environmental, social and governance (ESG) reporting standards.



*Attendees at the training.*

SIT organised the inaugural SG Clean Day with the aim of promoting a clean and green environment for all to enjoy. Ms Rachel Ong, Member of Parliament, West Coast GRC welcomed and addressed the participants before they went about SIT@Dover and the neighbouring vicinity to pick up litter.



*SIT's first SG Clean Day saw participation from staff and students.*

**FEBRUARY  
2023**

**SIT X SG  
CLEAN DAY**

SIT joined in **#GoBlue4SG2023** by lighting its building façade in blue and promoting the message of water conservation through e-newsletters and digital displays.

Staff and students also dressed in blue on the day to signal their commitment towards water sustainability.

**MARCH  
2023**

**SINGAPORE  
WORLD WATER  
DAY**



*SIT@Dover University Tower was lit up in blue for #GoBlue4SG movement.*



*Staff dressed in blue in support of #GoBlue4SG movement.*