

SUSTAINABILITY PERFORMANCE REPORT FOR 2021

This report provides an update to our stakeholders (as at 31 December 2021) on the Key Performance Indicator under the Sustainability Linked Bond issued by NTU in October 2021 (the “Sustainability-Linked Bond KPI”).

SUSTAINABILITY

In 2021, NTU continued to play a strong role in sustainable development. Our initiatives not only support the Sustainable Development Goals (SDGs) set forth by the United Nations (UN), but are also aligned with Singapore’s push to build a Smart sustainable Nation.

In October 2021, NTU issued the world’s first publicly offered sustainability-linked bond (SLB) by a university. NTU’s Sustainability Framework provides information on NTU’s sustainability commitments and goals. In addition, it sets out a time-bound Sustainability Performance Target that is aligned with NTU’s efforts to achieve carbon neutrality by 2035.

SUSTAINABILITY PERFORMANCE TARGET

Achieve carbon neutrality for the NTU Yunnan Campus¹ by 2035, while aiming to reduce gross carbon emissions intensity² by at least 50 per cent from the 2019 baseline.

2019 Baseline Scope 2 gross carbon emissions intensity: 56 kgCO₂e/m²

For calendar year 2021, NTU’s performance of the Sustainability-Linked Bond KPI is as follows:

ACTUAL PERFORMANCE

2021	Scope 2 gross carbon emissions intensity	54 kgCO ₂ e/m ²
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¹ “NTU Yunnan Campus” means the campus of NTU located in the Western part of Singapore along Nanyang Avenue

² Carbon emissions intensity shall be calculated as kilogrammes of carbon dioxide equivalent emitted per square metre of gross floor

In parallel with the issuance of the SLB, NTU also rolled out a bold sustainability manifesto that encompasses a 15-year plan to meet our sustainability targets and achieve carbon neutrality by 2035. In addition to striving for carbon neutrality, NTU plans to:

- Achieve 100% Green Mark Platinum certification for all eligible buildings on the NTU Yunnan campus
- Reduce NTU’s net energy utilisation, water usage and waste generation by 50 per cent, by March 2026, compared to the baseline levels of 2011
- Incorporate sustainability in its common interdisciplinary core curriculum for all undergraduate students
- Launch new undergraduate, postgraduate and continuing education programme options on different aspects of sustainability
- Promote sustainable technology solutions for food production and minimise food wastage
- Create a global network with industry partners, non-governmental agencies and policymakers to develop sustainable solutions
- Support and promote the principles of the UN Sustainable Development Goals across the pillars of education, research, innovation and community
- Forge close ties with industry partners who are committed to joining NTU’s sustainability journey

In working towards achieving our manifesto’s pledge towards a climate-aligned future, NTU has embarked on several initiatives to accelerate our manifesto’s agenda, some of which are highlighted below.

NTU partnered with Royal Golden Eagle (RGE), a global resource-based manufacturing group, to launch the RGE-NTU Sustainable Textile Research Centre (RGE-NTU SusTex) to

area of the NTU Yunnan Campus (and gross floor area is defined as the total area of the covered floor space measured between the centre line of party walls, including the thickness of external walls but excluding voids).

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advance innovation in textile recycling. The S\$6 million joint research centre will explore areas such as next-generation eco-friendly and sustainable textiles, and refabricating textile waste into fibre. To better meet the energy demands of Singapore in a sustainable manner, NTU is leading the collaboration between Enterprise Singapore (ESG) and the Sustainable Energy Association of Singapore (SEAS) to launch two new laboratories under the EcoLabs Centre of Innovation for Energy partnership. These laboratories will help green start-ups and Small-Medium Enterprises (SMEs) to test their technologies and innovate in Singapore's energy sector. Also, with ESG, NTU launched the Singapore Agri-Food Innovation Lab (SAIL) to drive agri-food innovations and explore problem statements that are prevalent in the agri-food sector such as sustainability.

On NTU's pivot towards a Smart and Sustainable Campus, NTU has demonstrated how innovative digital and tech-enabled solutions can better support learning and living experiences, the discovery of new knowledge, and the sustainability of resources. To enhance digital transformation and innovation, and to foster sustainability, NTU partnered Microsoft in adopting a digital-first strategy by equipping the campus with cloud-based technology and agile infrastructure. As at April 2022, 97% of our building projects are certified Green Mark Platinum.

To develop talent in the areas of corporate sustainability and sustainable finance, NTU launched two sustainability-related education programmes: Executive Certificate in Corporate and Environmental Sustainability, and Certificate Programme in Sustainable Finance. These programmes are designed to impart ready-to-apply knowledge to participants who are leading sustainability initiatives or sustainable investments in their organisations. Additionally, to prepare our undergraduate students for global sustainability challenges, our undergraduate students are required to complete a sustainability-related course offered under the Interdisciplinary Collaborative Core (ICC) Office.

In NTU and beyond, the campus community and university alumni are an integral part of our sustainability efforts and a key driver to promote the culture of sustainability. NTU regularly organises sustainability initiatives, such as the annual "Green for Good" sustainability week, and "NTreeU", a tree-planting initiative in support of the National Parks Board's OneMillionTrees movement.

To better understand our sustainability strategies, initiatives and performance, we encourage our stakeholders to refer to [NTU's sustainability and news website](#).

In connection with the disclosure of NTU's performance of the Sustainability-Linked Bond KPI for the calendar year ended 31 December 2021, PricewaterhouseCoopers LLP (PwC) has undertaken a limited assurance engagement and the report can be found on our [sustainability website](#).

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