

# Sustainability Day Summit: From Global Low-Carbon Systems to Student Impact

HOUSTON, TX, UNITED STATES, December 4, 2025 /EINPresswire.com/ -- Amid accelerating industrial shifts and dynamic sustainability demands, Lone Star College–CyFair's inaugural Sustainability Day Summit, developed in strategic partnership with the Society for Low Carbon Technologies (SFLCT), immersed students in the scientific, technical, diplomatic, and institutional systems shaping the low-carbon transition. In doing so, it transformed an academic event into a platform for global knowledge dissemination, preparing students to lead in the low-carbon and energy domains [via its Immersion-to-Impact model](#).



Institutional group impact featuring Lone Star College–CyFair President Dr. Valerie Jones (6th from left) and SFLCT Chairman Fernando C. Hernandez (7th from left)

The Summit convened over 200 attendees, featured more than 50 student poster and tabletop projects, and included international and cross-sector participation. It also reflected the real-world systems that govern low-carbon futures. This includes SFLCT's role in shaping Brazil's Carbon Capture Storage (CCS) law and serving on the government's CCS subcommittee [that anchored the nation's position ahead of the United Nations' COP30](#) held in the Amazon.

This international impact was embedded into the Summit's structure, with participation from students, faculty, and Lone Star College–CyFair's President, Dr. Valerie Jones. The student poster and tabletop work carried a clear sense of ownership and purpose, revealing students not as spectators but as active solution-builders. Projects on biodiversity, coastal ecosystems, and environmental challenges demonstrated scientific grounding and strong presentation. Their work makes it clear the next generation does not merely inherit the low-carbon transition; they are already shaping it.

The event operationalized SFLCT's Immersion-to-Impact model, moving beyond traditional career

fairs and scholarships through multidomain hands-on engagement. Now applied in the heart of Texas is the operational mindset that propels [the organization's impact from Panama to Pakistan](#), including inking the first low-carbon agreement in that nation. Moreover, SFLCT members pictured in the opening image stand alongside Lone Star College–CyFair's faculty, collectively demonstrating what low-carbon-ready institutions look like, where global foresight, student development, and community purpose converge to strengthen the next-generation talent pipeline.



Dr. Sarah Morgan (2nd from left), of Lone Star College–CyFair and SFLCT's members, leading student–industry engagement through her dual academic and institutional role

Students and faculty engaged directly with industry leaders from SFLCT's Industry Advisory Board (IAB), who presented across the energy and low-carbon value chain. Among them was Zach Liu, Director of Subsurface at Harvestone Low Carbon Partners, who is involved with one of the first CCS projects to roll out

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*Fernando C. Hernandez,  
SFLCT Chairman of the Board*

this century that geologically captures CO<sub>2</sub> from an ethanol plant. Additional SFLCT members presented on geothermal, hydrogen produced using nuclear power, and algae innovations for circular economy applications.

“This event reflects what occurs when global insight and local leadership operate in concert,” said Fernando C. Hernandez, Chairman of the Board of the SFLCT. “The inaugural Sustainability Day Summit with Lone Star College–CyFair demonstrates how knowledge converts into action and how students become active participants in shaping the low-carbon future.” He added that Dr. Sarah Morgan, Professor of Biology and Environmental Science at Lone Star College–CyFair and a member of SFLCT's IAB,

played a pivotal role in delivering this impactful event.

Strategic breaks between presentations allowed SFLCT members, faculty, and community leaders to walk the floor, not to critique, but to listen and engage. Students were able to draw from the industry experts' lived experience, which accelerates understanding beyond coursework. These dialogues strengthened community engagement and reflected SFLCT's core principles of humility, access, and impact.

By aligning the Summit with the Immersion-to-Impact model, SFLCT reinforced its commitment to ethical student access, delivered at no cost to educational systems or to students themselves. Through formative inclusion, the Summit provided real-world fluency, clearer career pathways, and exposure to decarbonization complexities that otherwise take months or years to develop through traditional education. Students became co-creators of knowledge, translating global action into practical insight.

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Zach Liu, of Harvestone Low Carbon Partners and SFLCT's Advisory Board, sharing pivotal carbon capture insights drawn from his unique industry experience

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