

Member Communication Experience

Career Pathways Phase 2

CMAA Sustainability Project Spotlight submitted by: Farrah Farzaneh, Executive Director, San Bernardino Community College District

Project Team

- » **OWNER:** [San Bernardino Community College District](#)
- » **AE:** DLR Group
- » **BUILDER:** Bernards Bros, Inc.
- » **PROJECT MANAGER:** AECOM
- » **CONSTRUCTION MANAGER:** Safework

Project Statistics

- » **USE:** Higher Education, Career Technical Education Facility
- » **SIZE:** 65,428 sq. ft.
- » **CONSTRUCTION VALUE:** \$56.1 million
- » **CERTIFICATION(S):** Targeting LEED Platinum and Envision Gold

What is the most exciting sustainable feature of your project?

Career Pathways Phase 2 combines a 40,000 sq. ft. Allied Health building and a 26,000 sq. ft. Aeronautics building into



a high-performance campus project designed to support zero net energy goals. The project uses all-electric systems, passive design strategies, high-performance envelopes, and a planned 406 kW DC solar system to reduce energy demand and offset projected energy use. It also creates visible learning opportunities around energy, transportation, and stormwater, turning the campus itself into a teaching tool.


What was the biggest challenge your team faced and how did you overcome it?

A key challenge for the project team has been balancing the specialized technical requirements of programs such as aeronautics, and surgical and pharmacy technology [welding is not part of this project] with ambitious sustainability goals. These programs often require equipment and building systems that can increase energy demand and operational complexity.

To address this challenge, the project team implemented a highly collaborative and integrated design process involving the architect, engineers, construction management team, and college stakeholders. Early coordination allowed the team to identify opportunities to improve building performance while maintaining the functionality required for advanced technical training. Through careful planning, system optimization, and sustainable design integration, the team developed solutions that support both high-performance building standards and the hands-on learning environments essential for career technical education.

What was the most interesting sustainable feature that didn't make it into the final project?

During design, the team explored a solar chimney concept to strengthen passive ventilation and support the project's broader sustainability goals. While it did not make it into the final project, it reflects the team's effort to evaluate passive design strategies before selecting the final building systems approach.

Instead, the team implemented a more cost-effective solution using roof monitors on the Aeronautics building. Operable windows within the roof monitors are integrated with the building's ventilation system and operate in coordination with large fans located in the hangar. When the hangar door is opened, the fans and operable windows work together to create natural airflow, helping to provide passive ventilation and improve indoor air movement. 





About the Project

CMAA has created the Sustainability Project Spotlight as a regular focus given to member projects nationwide that are building the way to a better future.

The [San Bernardino Community College District Career Pathways Phase 2](#) project will deliver modern buildings with flexible laboratories, collaborative spaces for student-faculty interaction, supplemental instruction areas, and offices tailored to the needs of the college's Allied Health and Aeronautics and welding disciplines.

Strategically located adjacent to the new Technical Building, these facilities will provide an exceptional learning environment equipped with the latest technology and equipment to prepare students for rewarding careers.

The CMAA Sustainability Subcommittee is actively seeking to spotlight your projects! Please email us at communications@cmaanet.org with a project name and person to contact.

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