



Net Zero Pilot Program
at SBCCD

SBCCD Sustainability Plan

The sustainability plan establishes a framework for sustainability at SBCCD, including **measurable targets** and **actionable initiatives** to track progress.



Carbon Mitigation



Energy



Water



Transportation



Materials



Education



Ongoing Engagement & Transparency



EXECUTIVE SUMMARY

San Bernardino Community College District (SBCCD) recognizes the need to take a leadership role on sustainability both within its local community as well as within the network of community colleges. SBCCD has undertaken a thorough strategic sustainability planning process to establish a set of sustainability goals to guide future operations at SBCCD. In alignment with State goals and the State Chancellor's Office, the 20 goals in carbon mitigation, energy, water, transportation, materials, curriculum, and ongoing engagement and transparency will provide a structure and direction for sustainable actions at SBCCD.



Carbon Mitigation

- Achieve carbon neutrality for scope 1 and 2 emissions by 2050. Manage scope 3 emissions through the implementation of a Sustainability Task Force



Energy

- Develop a retro-commissioning program focused on existing building energy efficiency
- Maximize the amount of on-site renewable energy generation
- Move towards an all-electric approach for new construction and major renovations
- Conduct a zero net energy (ZNE) campus feasibility study and implement initiatives to move towards a ZNE district, starting with Valley College
- Consider establishing a Community Resilience Hub on each campus
- Collaborate with local utilities and other organizations to maximize cost-effectiveness of energy initiatives



Water

- Improve indoor water efficiency for existing buildings and new construction
- Utilize native and adaptive vegetation to minimize irrigation water use
- Expand the use of alternative water supplies to reduce potable water use
- Reduce potable water use by 20% by 2025, and 25% by 2030



Transportation

- Establish a transportation demand management plan to encourage alternative modes of transport and reduce single-occupancy vehicles (SOVs) demand
- All new purchases of fleet vehicles shall be zero emissions by 2025, to achieve a full conversion of the fleet by 2040
- Install electric vehicle (EV) charging infrastructure to promote the use of EVs within the local community



Materials

- Reduce waste going to landfill by 25% compared to current levels by 2025, and 50% by 2030
- Increase procurement of sustainable products and services by 20% compared to current levels by 2025, and 25% by 2030, on a cost basis



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Ongoing Engagement & Transparency

- Track and report ongoing sustainability performance against goals every five years starting in 2025
- For all new construction and major renovations over 30 ksqft, achieve CALGreen Tier 1 and LEED Gold at a minimum, and CALGreen Tier 2 and LEED Platinum where possible



Net Zero Energy (NZE) Implementation Plan

- Energy Efficiency Measures
- Renewable Energy Feasibility Analysis
- Battery Storage Analysis
- Electrification Planning
- Electric Vehicle (EV) Charging station plan



Data Gathering and Benchmarking

- Review of available data
- Field Investigation
- Previous Studies
- Master Plans
- PV Locations



Analysis and Evaluation

- ASHRAE Level Audits
- PV/Storage Analysis
- ECM Measures
- Sub Metering
- Delivery Methods



Implementation Plan and Roadmap

- ECM Measures
- PV Implementation
- EV Implementation
- Funding Sources
- Phased Implementation



Crafton Hills College NZE Implementation Plan



San Bernardino Valley College NZE Implementation Plan

P2S Project #1083

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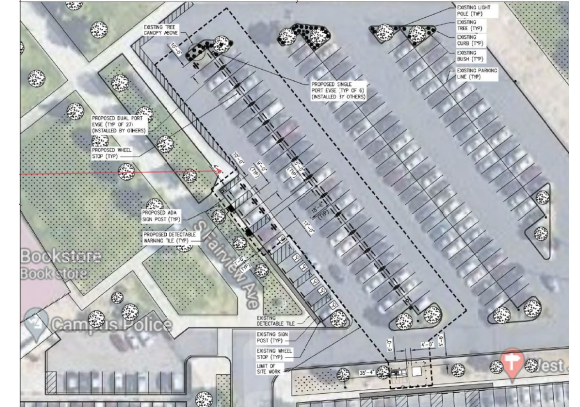


Energy & Sustainability Projects in the Pipeline

Electric Vehicle (EV) Charging Station Projects:

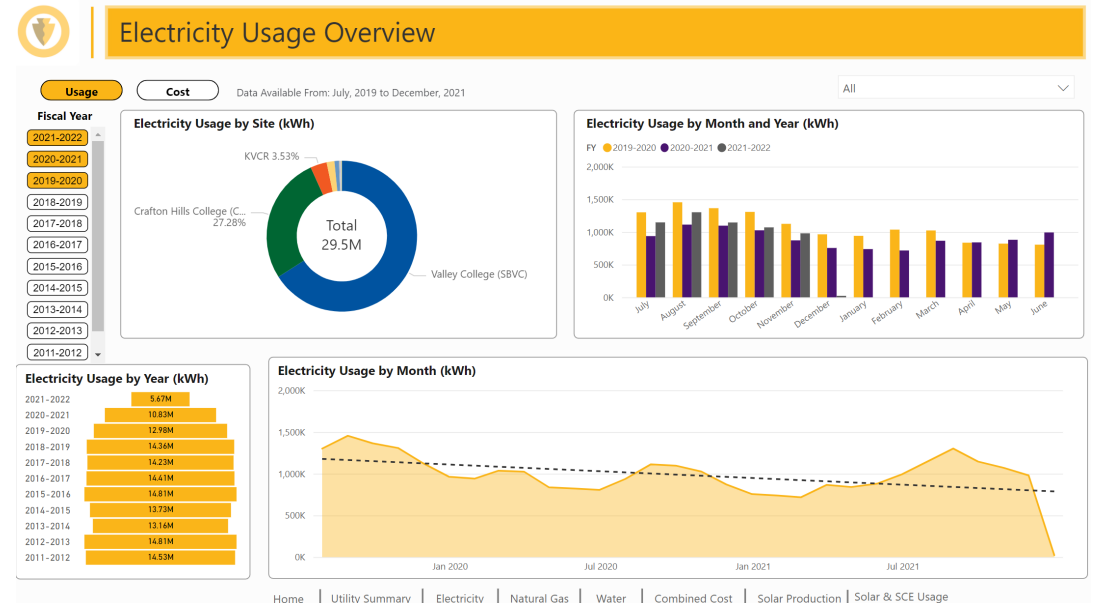
Transport electrification planning across the District, including siting and business case analysis of EV charging ports.

- 110 EV Charging Stations Planned at SBVC
- 12 EV Charging Stations at DSO



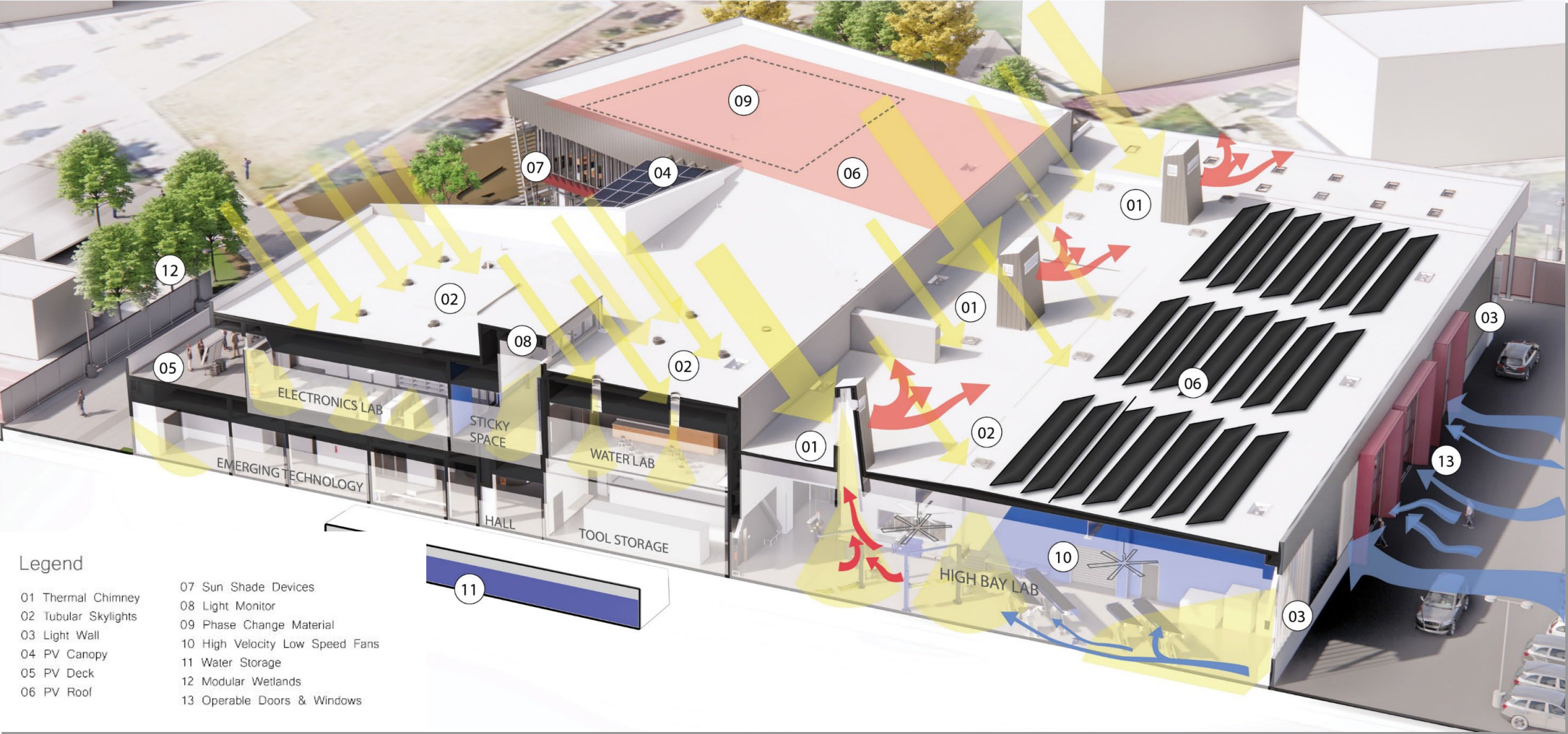
District Energy Dashboard ([URL](#)):

- Electricity Data
- Natural Gas Data
- Water Utility Data
- Solar PV Production Data



Building Living Laboratories

Buildings integrate sustainability into design and academic curriculum, providing students with experiential education.



Building Living Laboratories

SBVC Technical Building:

- LEED Platinum
- Zero Net Energy Ready
- Four (4) Sustainable Design Awards



CHC Performing Arts Center:

- LEED Platinum
- LEED Zero Energy
- Institute for Sustainable Infrastructure (ISI) Envision Silver
- Sustainable Design Award from USGBC-LA

