

CCC Board of Governors 2021 Policy Update

Climate Action and Sustainability Framework



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Session Presenters

Farrah Farzaneh

Director of Facilities Planning, Emergency Management & Construction, San Bernardino CCD

Joe Fullerton

Energy and Sustainability Manager, San Mateo CCD

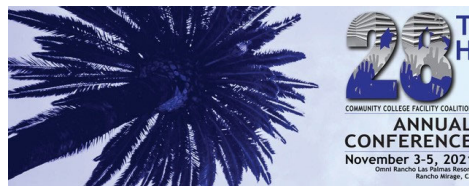
Nat Martin

Director of Sustainability, Los Rios CCD

Hoang Nguyen

Director of Facilities Planning, CCCC





Overview

- Climate Action and Sustainability Steering Committee
- Causes and Impacts of the Climate Crisis
- BOG Climate Action and Sustainability Framework Resolution and Policy
- Developments Update – Goals Table Review



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Climate Action & Sustainability Steering Committee

- Farrah Farzaneh, San Bernardino CCD
- Joe Fullerton, San Mateo CCD
- Karen Groppi, Cabrillo CCD
- Aris Hovasapian, Los Angeles CCD
- Ferris Kavar, Santa Monica CCD
- Owen Letcher, Chabot-Las Positas CCD
- Nat Martin, Los Rios CCD
- Don Reid, Los Rios CCD
- John White, Desert CCD
- Hoang Nguyen, CCCCCO
- Brian Turner, CCCCCO
- Jennifer Keiper, Foundation for CCC



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Board of Governors Climate Change and Sustainability Framework Resolution and Policy

- Board of Governors priority
- Climate change poses significant threats and offers great opportunity to California Community Colleges
- Adopted at the May 2019 Board of Governors meeting
- The Climate Change and Sustainability Steering Committee was formed in February 2020
 - In September 2020, the Charter was revised to retitle the committee “Climate **Action** and Sustainability Steering Committee”

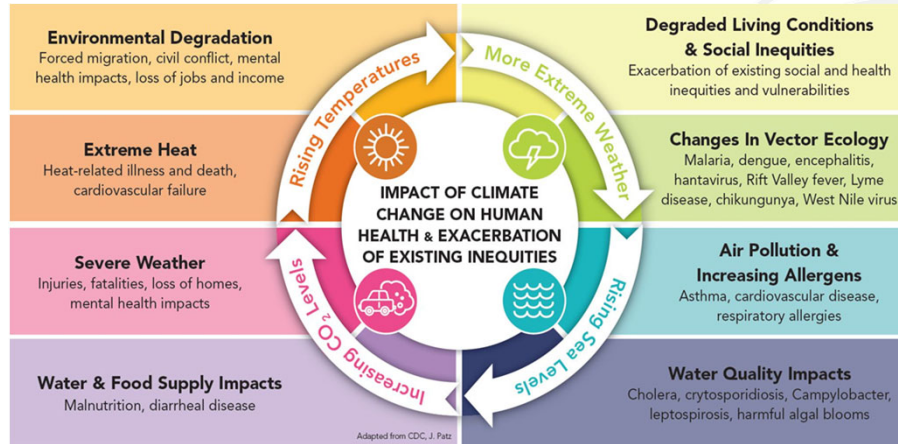


2019 BOG Climate Change and Sustainability Policy

By 2025	By 2030	Goal
30 percent	40 percent	Reduction of greenhouse gas emissions to below 1990 levels
25 percent	50 percent	Increase of renewable energy consumption
25 percent	50 percent	Of fleet vehicles are zero-emission vehicles
50 percent	100 percent	Of all new buildings and major renovations will be constructed as Zero Net Energy
50 percent	100 percent	Of all new buildings and major renovations will achieve at least a Leadership in Energy and Environmental Design (LEED) “Silver” or equivalent rating
20 percent	25 percent	Increase in the procurement of sustainable products and services compared to current levels
25 percent	50 percent	Reduction of municipal solid waste compared to current levels



Causes and Impacts



Global warming relative to 1850-1900 (°C)





CCC Board of Governors' Climate Action & Sustainability Policy

Inclusive of:


- Educational and Operational Codes and Standards
- BOG Administrative Policy
- Legislation
- Executive Orders
- Regulations

Addressing issues like:




- GHG Emissions Elimination
- Sustainable Procurement
- Zero Net Energy




Considerations for the Future:


- Equitable Student and Staff Engagement, Empowerment and Enrichment
- Academic and Career Training


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Refinements: Based in Principles and Values that Reflect CCC Commitment to Excellence

-  Students first
-  Evidence-based, research, goals, and clear vision
-  Effective communication

-  Change management, organizational behavior, socialization
-  Accountability
-  Climate-related legislation and effective policy implementation

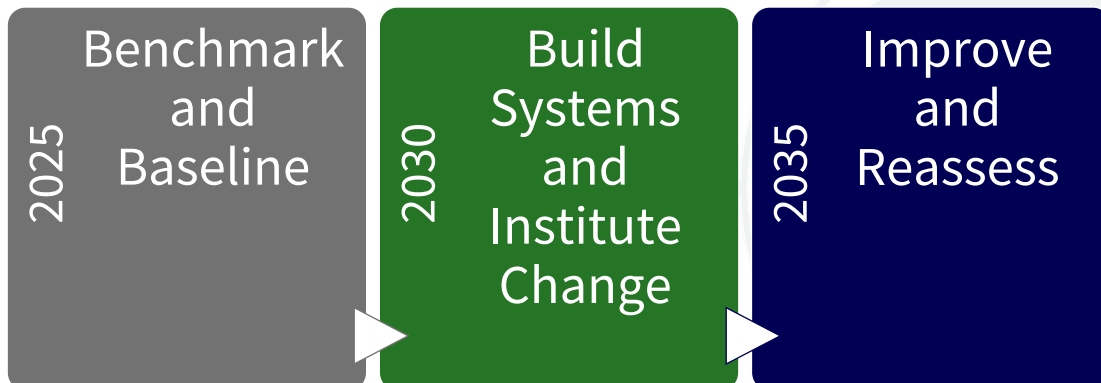

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Refinements: Comprehensive Approach

- Improves and elevates facilities and business services practices
- Crafted to resonate with colleges shared governance process
- Encourages accountability
- SMART goals that align with science and regulation

Refinements: A Stepwise Approach





Refinements: Using STARS

“The Sustainability Tracking, Assessment & Rating System™ (STARS®) is a transparent, self-reporting framework for colleges and universities to measure their sustainability performance.

STARS is intended to engage and recognize the full spectrum of higher education institutions, from community colleges to research universities.

The framework encompasses long-term sustainability goals for already high-achieving institutions, as well as entry points of recognition for institutions that are taking first steps toward sustainability.”



<https://stars.aashe.org/>

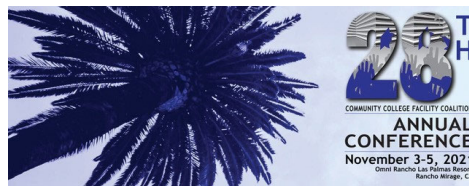
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Key Policy Elements: System Level

- Recommendations to the CCCCCO:
 - Adopt the Sustainability Tracking, Rating and Assessment System (STARS) as a tool for measuring district and individual campus sustainability progress.
 - Form an interdisciplinary task force whose purpose is to form and firm sustainability-oriented degree articulation pathways to in-state and other higher education institutions; assign a sector navigator for climate and sustainability careers and workforce development.
 - Begin working with California State agencies to ensure climate action and sustainability programs for academic and operational purposes receive funding, technical, logistical and other support as required.
 - Create an online climate action and sustainability toolkit to include resources, templates, contacts and contracts that can assist campuses in advancing climate action and sustainability work.
 - Add a fellowship position to oversee climate action and sustainability policies, programs, and practices across operations and curriculum.



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Key Policy Elements: District and Campus

- Submit to the Chancellor's Office measurable sustainability objectives by the end of 2025 including:
 - District level carbon emissions inventory; establish a baseline and develop a Climate Action Plan to reduce emissions by 100% by 2035.
 - Campus level Sustainability Plans that meet or exceed the goals to the Climate Action and Sustainability Policy goals.



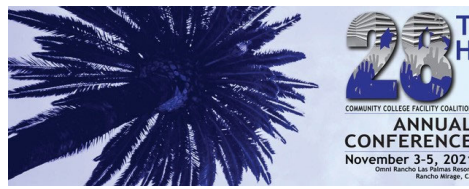
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Goals and Timelines


- The Climate Action and Sustainability Framework may have some different goal dates than State mandated deadlines due to districts being hit with COVID and other fiscal issues. Districts can meet these earlier dates:
 - Benchmarking is currently law for buildings greater than 50,000 sq. ft. under [Assembly Bill 802](#).
 - Proposed updates to [Title-24, 2022 Building Energy Efficiency Standards](#) looks like it may require Zero Net Energy ready for new buildings. If so, this will start to be enforced January of 2023.
 - [2021 Building Energy Efficiency Standards Summary](#) encourages electrification and will continue to require solar ready buildings.




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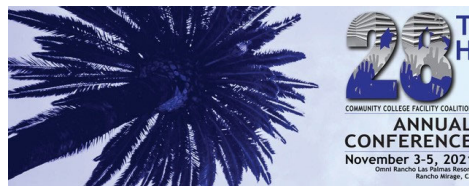


Category	Sub Category	2025 Benchmark	2030 Institutionalize	2035 Improve and Reassess
Operations	Greenhouse Gas Emissions Reduction	<ul style="list-style-type: none"> Conduct emissions inventory baseline and create a climate action plan. 	<ul style="list-style-type: none"> Reduce greenhouse gas emission to 75% below baseline. 	<ul style="list-style-type: none"> Reduce greenhouse gas emission to 100% below baseline.
Operations	Green Buildings	<ul style="list-style-type: none"> Benchmark energy usage intensity for each building. Develop Zero Net Energy (ZNE) and campus electrification strategy. Conduct Leadership in Energy and Environmental Design (LEED) and/or WELL assessment of existing buildings. 	<ul style="list-style-type: none"> All new buildings and major renovations constructed as ZNE ready. All new buildings certified LEED or WELL Gold. Use of natural gas in buildings reduced by 30%. 	<ul style="list-style-type: none"> All new buildings and major renovations constructed as ZNE. All new buildings certified Zero Carbon. All existing buildings LEED O&M Gold or WELL Gold equivalent. Use of natural gas in buildings reduced by 75%.



Summary Revised Policy

Category	Sub Category	2025 Benchmark	2030 Institutionalize	2035 Improve and Reassess
Operations	Energy	<ul style="list-style-type: none"> Establish a campus Energy Use Intensity (EUI) score. Conduct Effective Useful Life (EUL) analysis of all gas using appliances and systems; plan for electrification of systems with EUL of <10 years. 	<ul style="list-style-type: none"> Decrease EUI by 25% compared to the campus benchmark. Produce or procure 75% of site electrical consumption on an annual basis using renewable energy. 	<ul style="list-style-type: none"> Decrease EUI by 40% compared to the campus benchmark. Accomplish Net Zero Energy Campus.
Operations	Water	<ul style="list-style-type: none"> Benchmark potable water usage and create a water balance. Identify potential non-potable water resources. Create a landscape zoning map and irrigation metering strategy. Adopt the California Community College Model Stormwater management program. 	<ul style="list-style-type: none"> Reduce potable water usage from baseline level by 25%. Landscape irrigation systems of 2500 square feet or greater shall be separately metered (unless using local or municipal reclaimed water system). Landscape planting materials shall be 90% native species to the climate and geographical area of the college. Follow MS4 requirements. Irrigated turf grass shall not exceed 50% of the landscaped areas on campus. 	<ul style="list-style-type: none"> Reduce potable water usage from baseline level by 50%. Stormwater runoff and discharge shall be limited to predevelopment levels for temperature, rate, volume and duration of flow through the use of green infrastructure and low impact development for the campus. Stormwater runoff and discharge shall be limited to predevelopment levels for temperature, rate, volume and duration of flow through the use of green infrastructure and low impact development for new buildings and major modifications.


Summary Revised Policy




Category	Sub Category	2025 Benchmark	2030 Institutionalize	2035 Improve and Reassess
Operations	Waste	<ul style="list-style-type: none"> Conduct waste categorization assessment. Benchmark and comply with Title 14, Division 2, Chapter 5 (Beverage Container Recycling and Litter Reduction Act). Benchmark and comply with Title 14, CCR Division 7. Conduct an AB 341 compliance assessment. Centralize reporting for waste and resource recovery. Conduct total material consumption benchmark. 	<ul style="list-style-type: none"> Achieve zero waste to landfill. Conduct circularity analysis. Reduce total material consumption compared to the benchmark by 10%. 	<ul style="list-style-type: none"> Maintain zero waste to landfill. Increase material circularity by 25%. Decrease consumption of materials by 25%.
Operations	Purchasing and Procurement	<ul style="list-style-type: none"> Benchmark sustainability characteristics of existing products and services. Adopt a sustainable procurement policy and administrative procedure. Purchase environmentally and socially preferable electronic products. 	<ul style="list-style-type: none"> Increase procurement of sustainable products and services by 25% compared to benchmark levels. 	<ul style="list-style-type: none"> Increase procurement of sustainable products and services by 50% compared to benchmark levels.



Summary Revised Policy

Category	Sub Category	2025 Benchmark	2030 Institutionalize	2035 Improve and Reassess
Operations	Transportation	<ul style="list-style-type: none"> Conduct accounting and conditions assessment of fleet vehicles. Assess remainder rolling stock for potential electrification. Develop Electric Vehicle (EV) charging infrastructure to encourage faculty, staff and students to use EVs. Promote accessible shared transport methods. Make pedestrian and bicycle access improvements. 	<ul style="list-style-type: none"> 50% of new fleet vehicles are zero emission vehicles. 50% of rolling stock are zero emissions. Consider implementing green parking permits. 	<ul style="list-style-type: none"> 100% of new fleet vehicles are zero emission vehicles. 100% of rolling stock are zero emissions.
Operations	Food Systems	<ul style="list-style-type: none"> Consider signing the Real Food Campus Commitment. Benchmark and track sustainable food purchases in alignment with the Real Food Challenge guidelines, or equivalent. 	<ul style="list-style-type: none"> Strive to increase campus sustainable food purchases v. baseline by 20%. 	<ul style="list-style-type: none"> 80% of food served on campus meets the requirements of the Real Food Challenge or equivalent.



Summary Revised Policy



Questions?

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