

AGENDA

JOINT COMMITTEES ON EDUCATIONAL POLICY AND CAMPUS PLANNING, BUILDINGS AND GROUNDS

Meeting: 10:00 a.m., Wednesday, March 23, 2022
Glenn S. Dumke Auditorium

**Committee on Educational
Policy**

Christopher Steinhauser, Chair
Romey Sabalius, Vice Chair
Larry L. Adamson
Diego Arambula
Jane W. Carney
Jack Clarke, Jr.
Douglas Faigin
Jean Picker Firstenberg
Wenda Fong
Julia I. Lopez
Krystal Raynes
Yammilette Rodriguez

**Committee on Campus Planning,
Buildings and Grounds**

Jane W. Carney, Chair
Wenda Fong, Vice Chair
Larry L. Adamson
Adam Day
Maria Linares
Julia I. Lopez
Anna Ortiz-Morfit
Romey Sabalius

- Consent** 1. Approval of Minutes of the Meeting of January 25, 2022, *Action*
Discussion 2. Proposed Revision to Sustainability Goals and Policy, *Action*

**MINUTES OF THE MEETING OF THE
JOINT COMMITTEES ON EDUCATIONAL POLICY AND
CAMPUS PLANNING, BUILDINGS AND GROUNDS**

**Trustees of the California State University
Office of the Chancellor
Glenn S. Dumke Auditorium*
401 Golden Shore
Long Beach, California**

January 25, 2022

Members Present

Educational Policy Committee

Christopher Steinhauser, Chair
Romey Sabalius, Vice Chair
Larry L. Adamson
Diego Arambula
Jane W. Carney
Jack Clarke, Jr.
Douglas Faigin
Jean P. Firstenberg
Wenda Fong
Julia I. Lopez
Krystal Raynes
Yammilette Rodriguez

**Campus Planning, Buildings & Grounds
Committee**

Jane W. Carney, Chair
Wenda Fong, Vice Chair
Larry L. Adamson
Adam Day
Maria Linares
Julia I. Lopez
Anna Ortiz-Morfit
Romey Sabalius

Lillian Kimbell, Chair of the Board

Joseph I. Castro, Chancellor

Trustee Jane Carney called the meeting to order.

Public Comment

Public comments were delivered at the beginning of the meeting's open session prior to all committees. One student expressed concern that the proposed sustainability policy does not reach far enough beyond existing state laws.

***PLEASE NOTE: As authorized by Assembly Bill No. 361 and Executive Order N-1-22 issued by Governor Newsom, all members of the Board of Trustees participated in this meeting remotely, either by telephonic or video conference means. Out of consideration for the health, safety and well-being of the members of the public and the Chancellor's Office staff, the January 24-26, 2022, meeting of the CSU Board of Trustees was conducted entirely virtually via Zoom teleconference.**

Consent Agenda

The minutes of the March 24, 2020, meeting of the Joint Committees on Educational Policy and Campus Planning, Buildings and Grounds were approved as submitted.

Report on Sustainability Goals and Proposed Policy Revision

This information item provided an overview of CSU leadership in sustainability, new policy goals, current metrics, 2021 Sustainability Tracking and Reporting System (STARS) results, and sustainability research activities across the CSU.

Following the presentation, trustees and campus leadership made comments about the number of sustainability programs currently in place on campuses. The trustees encouraged the use of solar energy projects including vehicle charging stations, public-private partnerships, and bundling of solar projects across the system for cost efficiencies. In response to a question, the trustees were informed that converting a campus from bundled to direct access is based on limited capacity and that it was through a lottery that three CSU campuses were recently selected to convert to direct access energy procurement.

The trustees asked questions relating to tracking of sustainable procurement in recycled products and treatment of promotional items. They were informed that the STARS system has features to score and track some of this information. A question was asked about sustainable food services, and if the CSU uses excess food to address student hunger and basic needs. It was explained that campuses can and have set up internal practices to create food pantries and exchanges to increase access, and this information is also reported in STARS. The trustees suggested that the Chancellor's Office include a description of resources needed to achieve each goal laid out in the sustainability policy so the trustees can better understand what is needed.

A suggestion was made to have CSU expand composting and consider using the output to support campus farm programs, similar to what the City of San Francisco is doing with nearby agriculture. It was requested that the Chancellor's Office reach out to the public speaker who raised concerns about the limited impact of the proposed sustainability policy revisions. It was agreed that outreach to CSSA and ASI student leaders will take place in the coming weeks.

Trustee Carney adjourned the meeting of the Joint Committees on Educational Policy and Campus Planning, Building and Grounds.

**JOINT COMMITTEES ON EDUCATIONAL POLICY &
CAMPUS PLANNING, BUILDINGS AND GROUNDS**

Proposed Revision to Sustainability Goals and Policy

Presentation By

Brad Wells
Acting Executive Vice Chancellor and
Chief Financial Officer

Nathan Evans
Associate Vice Chancellor/Chief of Staff
Academic and Student Affairs

Elvyra F. San Juan
Assistant Vice Chancellor
Capital Planning, Design and Construction

Summary

This item requests the California State University Board of Trustees approve the proposed revisions made to the CSU sustainability policy in response to comments from trustees, students, and campus staff. It aligns with recent changes in state law and expands campus transportation planning to reduce carbon emissions. Changes since the January 2022 Board of Trustees meeting are proposed to broadly capture the vision of CSU programs and initiatives that encourage and promote diversity, equity, and inclusion. In addition, changes have been included to respond to stakeholder requests to reinstate language in previously approved trustee policy to improve visibility. Attachment A illustrates the proposed revisions showing strikethroughs and insertions from the existing policy. Attachment B is a clean version of the policy as proposed for Board of Trustees approval.

Background

In May 2014, the Board of Trustees broadened the CSU's efforts to reduce its use of natural resources and passed a policy that encouraged the integration of sustainability concepts across all areas of the university (RJEPCPBG 05-14-01) including academic programs, student services and auxiliary enterprises. Progress reports were provided to the Board of Trustees in 2016, 2018, and

2020, with the development of a detailed report in 2018 containing campus metrics to date¹ and staff recommendation that the CSU adopt the use of the Association for the Advancement of Sustainability in Higher Education (AASHE) Sustainability Tracking Assessment and Rating System (STARS) as the reporting and benchmarking tool for future reports. Participation in STARS promotes transparency, accessibility, standardization of definitions and metrics, model practice resources, and national recognition. The CSU has demonstrated additional leadership in the sustainability arena through the divestiture from stocks and other financial investment programs that rely on capital gained through fossil fuel intensive activities. These strategies and those laid out in this policy are part of the CSU's philosophy of working to achieve true carbon reduction and limiting the need for offsetting² measures to meet our decarbonization goals.

Proposed Policy Revision

Attachment A includes proposed revisions to the current 2014 policy. The proposed policy aims to align with changes in state law, modernize language, and proposes enhanced focus on carbon reduction strategies through building decarbonization (use of fuels with lower carbon emissions), increasing on-site renewable power generation, and transportation planning.

Based on the Board of Trustees' feedback, the revision includes a broader definition of sustainability as it relates to diversity, equity, and inclusion as well as sustainable components of curriculum and academic practices. During the item presentation in January 2022, the Board of Trustees expressed a commitment to sustainability which suggested more rigorous goal setting and inclusion of elements such as those listed above.

Additional feedback included procurement-related goals which focus on sustainable purchasing practices as well as food service strategies. Language to encourage the use of STARS as a measuring and reporting tool was added, as well as guide campuses to seek out socially responsible vendors, and reduce waste by the re-use of materials and increased use of products with recycled content. Related to food services, language surrounding education and training of staff and patrons has been clarified.

Feedback regarding sustainable building practices resulted in the reinstatement of prior trustees' policy requiring that new construction and major renovation projects include a life cycle cost analysis to help inform campus project managers and decision-makers about efficient design, and language related to facility operations. This addition highlights the importance of on-going plant management as a reliable strategy to optimize building efficiency in new and existing buildings. The changes support existing goals centered on long-life building systems, decarbonization and

¹ Sustainability in the California State University, The First Assessment of the 2014 Sustainability Policy, 2014-2017, <https://www2.calstate.edu/impact-of-the-csu/sustainability/Documents/2014-17-Sustainability.pdf>

² "Offsetting" refers to the strategy of carbon/greenhouse gas reduction that is used to compensate for emissions that occur elsewhere. (ex. Power stations planting trees to compensate for high emissions as opposed to on-site emissions reductions)

exceeding Title 24 code requirements. The strategic direction will enable each campus to develop and implement its practices in consideration of continued budget challenges and various stages of campus sustainability efforts.

Comparison of 2014 Sustainability Goals and Proposed New Goals

The following chart identifies the major goals of the May 2014 policy and proposed new goals. A column to capture current efforts and strategies underway to support the goals is included. This chart has been updated from the January 2022 item to include elements added or changed in accordance with Board of Trustees feedback.

CSU Sustainability Goal	2014 Goal	Status	Proposed New Goal	Strategy
Climate Action Plans	Reduce GHG emissions to 1990 levels by 2020	Achieved	Reduce emissions by 40% below 1990 by 2030, 80% below 1990 levels by 2040; carbon neutrality by 2045	<ul style="list-style-type: none"> • Building Decarbonization Framework • Energy Efficiency Program support • Deferred Maintenance and Capital Funding to replace equipment & systems at end of useful life
Energy Resilience	Increase on-site power generation to 80 MW by 2020 includes cogeneration)	Not achieved, 32 MW existing, & 35 MW in design	Increase solar power generation to 80 MW by 2030 (excludes cogeneration)	<ul style="list-style-type: none"> • Solar & Battery systemwide Master Enabling Agreements (MEA) with private entities to design, build, finance, operate, and/or maintain • Pursue solar incentive funding
Energy Procurement	Increase renewable electricity to minimum 33% by 2020	Achieved - On-going	Increase renewable electricity sources to minimum 60% by 2030	<ul style="list-style-type: none"> • 3 campuses recently moved to Direct Access (DA) (now total 14 campuses). With DA, CSU can better manage renewable power purchase content and kWh unit costs.
Water Conservation	Reduce water consumption by 10% by 2016; 20% by 2020	Achieved	Reduce water consumption by an additional 10% by 2030, reduce decorative water feature, landscape	<ul style="list-style-type: none"> • Water conservation funding • Drought management practices • Smart irrigation technologies • Building renovations/replacements • Smart design and operation

CSU Sustainability Goal (continued)	2014 Goal	Status	Proposed New Goal	Strategy
Waste Management	Reduce waste disposal by 50% by 2016; 80% by 2020	Not Achieved	Reduce waste disposal by 50% by 2030; 80% by 2040; Align goals with state regulations	<ul style="list-style-type: none"> • Partnerships with waste haulers • On-campus composting programs • Support implementation of model practices • Staffing solutions
Sustainable Procurement	Promote use of eco-products; Minimize procured goods	Progress on eco-products.	Increase products with recycled content, align with STARS reporting	<ul style="list-style-type: none"> • Single-Use Plastics Policy (CSU) • Sustainable Procurement Policy & Procedures • Continue transition to recyclable / compostable food containers
Sustainable Food Service	Align purchasing practices with Real Food Challenge guidelines with 20% local food purchasing goal by 2020	Tracking of local food purchasing not achieved	Modify to align performance with STARS reporting; clarification on training and education of food service staff	<ul style="list-style-type: none"> • Support STARS working group • Coordinate on campus training materials development
Sustainable Design & Building Practices	Achieve 10% energy efficiency above Title 24 building code; Achieve LEED Silver or Equivalent for projects	Achieved Ongoing	Add decarbonization language; Add total cost of ownership analysis	<ul style="list-style-type: none"> • Mechanical Review Board review of building designs • Climate Informed Design-Day Guidelines • Review design of new and renovated facilities
Physical Plant Management	Centralized energy reporting	Achieved Ongoing	Return previous policy language for plant optimization to reduce inefficient heating and cooling strategies	<ul style="list-style-type: none"> • Utility master planning • Energy information system upgrades • Staff training and project support

CSU Sustainability Goal (continued)	2014 Goal	Status	Proposed New Goal	Strategy
Sustainable Transportation	Encourage alternative transportation and fuels to reduce GHG emissions	On-going	Develop campus Transportation Demand Management Plans to reduce emissions; electric vehicle strategies; fleet management – 50% of light duty and no new gas-powered vehicles by 2035.	<ul style="list-style-type: none"> • Transportation Policy & Procedures • Develop model TDM plans • Incorporate into campus physical master plan revisions
Academic and Student Services	Integrate sustainability into the curriculum	On-going	Add climate literacy; connect sustainability with social justice; promote diversity, equity and inclusion	<ul style="list-style-type: none"> • Continue multi-discipline course development; service learning • Basic Needs Initiative • Affordable Student Housing

Fiscal Impact

Estimating costs to revise campus programs is complicated as optimally a combination of one-time funds and base budget funds would be provided to support the proposed goals. Campuses are at various stages of incorporating sustainability in the academic program, student services and business operations. and supporting business practices and have already established sustainability committees and assigned responsibilities to staff to support the effort.

The estimated cost to implement the board’s goals is roughly \$4 billion. The cost is based on the following:

- Academic Program – continued curriculum development, research, workforce development, \$25 million
- Student Services – cost includes basic needs, affordable student housing, \$1.4 billion
- Business Operations – procurement, facilities improvements, \$2.5 billion

As a means of reducing the financial burden associated with the sustainability policy, the Chancellor's Office will be leveraging existing resources to pursue grant opportunities funded through the State of California as well as outside grants targeting climate resiliency. To support affordable student housing, the state has implemented a multi-year grant program and the legislature has introduced a zero percent interest loan program. Where possible, capital infrastructure funding and deferred maintenance funding will continue to be used to replace aged building systems with more efficient equipment, replace building and central plant gas-fired heating systems, complete additional energy conservation measures and install additional on-site generation to improve energy independence and reduce reliance upon the state's electrical grid.

Sustainability as a concept continues to morph and adapt to the planet it aims to serve. In this way, the policy that initially focused on energy conservation and the physical environment has transitioned to include the academic program and curriculum, and this proposed policy aims to better recognize our student services efforts that enable upward social mobility, support students with basic needs, and promote social justice. This policy intends to meet the needs of our existing generation of students without compromising the needs of future generations, the very definition of sustainability.

Recommendation

The following resolution is presented for approval:

RESOLVED, That the revised Sustainability Policy in Agenda Item 2 of the March 22-23, 2022, meeting of the Joint Committees on Education Policy and Campus Planning, Buildings and Grounds is adopted; and be it further

RESOLVED, That the progress in achieving the goals stated in this revised Sustainability Policy shall be evaluated at the end of Fiscal Year 2025-2026; and be it further

RESOLVED, That the chancellor or their designee is authorized to take the necessary steps to implement the intent of this policy including seeking available state, federal, grant, and private sector funds.

California State University Sustainability Policy Proposed Revisions

Attachment A illustrates the proposed policy revisions showing *italic* and ~~strike through~~ fonts to highlight significant changes. Parenthetical notes are used to identify policy changes that have occurred over time. Attachment B is a clean version of the proposed policy.

Summary

This policy is intended to position the nation's largest university system as a leader in the teaching and use of applied research to educate climate-literate students equipped to solve the complex challenges of the world and prepare them for an evolving workforce. In addition, the policy encompasses the tenets of human and ecological health, social justice, economic vitality, and promotes the environmental sustainability of CSU's operations for our built environment.

University Sustainability

1. The CSU will seek to further integrate sustainability *and climate literacy* into the academic curriculum working within the normal campus consultative process. *Activities can include, but will not be limited to, supporting multi-disciplinary course development, utilizing the campus as a living laboratory model, connecting sustainability with social justice, strengthening community partnerships, and creating appropriate learning outcomes. Progress shall be measured through the use of the AASHE STARS¹ platform.* (14-New; 22-Revise)
2. *The CSU shall promote environmental and social justice through new and existing Diversity, Equity, & Inclusion (DE&I) programs, such as the CSU Basic Needs Initiative.* (22-New)
3. The CSU will develop employee and student workforce skills in the green jobs *and climate - related* industry, promote the development of sustainable products and services, and foster economic development. (14-New; 22-Revise)
4. The CSU will pursue sustainable practices, *using AASHE STARS for guidance and reporting*, in all areas of the university, including:
 - a. business operations such as procurement; information technology; student *and employee* services; food services; *events, habitat and land-use* management, facilities operations; design and construction; and

¹ Association for the Advancement of Sustainability in Higher Education's Sustainability Tracking and Reporting System (STARS). For more information and to access the reporting platform, please visit: <https://stars.aashe.org/>

- b. self-funded entities such as student housing, student unions, parking *and transportation*, children's centers, and auxiliary operations. (14-New; 22-Revise)
5. Each CSU ~~is encouraged to~~ *will* designate a sustainability officer/*staff member* responsible for ~~carrying out planning~~ and/or coordinating campus sustainability program efforts. (14-New; 22-Revise)

Climate Action Plan

1. ~~The CSU will strive to reduce systemwide facility greenhouse gas (GHG) emissions to 1990 levels, or below, by 2020 consistent with AB 32, California's Global Warming Solutions Act of 2006 (HSC §38550). CSU will strive to reduce systemwide facility carbon emissions to 40 percent below 1990 levels, by 2030 consistent with SB 32, California's Global Warming Solutions Act of 2006 (California Health & Safety Code §38566, effective January 1, 2017). Emissions will include both state and auxiliary organization purchases of electricity and natural gas; fleet, marine vessel usage; and other emissions the university or self-support entity has direct control over. The Chancellor's Office staff will provide the baseline 1990 facility emission levels (for purchased electricity and natural gas) for the campuses that existed at that time and assist campuses added to the CSU after 1990 to determine their appropriate baseline.~~ (14-New; 22-Revise)
2. The CSU will strive to reduce facility *carbon* ~~GHG~~ emissions to 80 percent below 1990 levels by 2040 in order to *achieve carbon neutrality by 2045 in accordance with Statewide mandates. Campus tracking and reporting of GHG inventory will be grounded in the American College and University President's Climate Commitment guidelines or equivalent, with consideration to campus requested improvements.* Metrics will include GHG emissions per FTE. (14-New; 22-Revise)

Energy ~~Independence~~ Resilience and Procurement

1. The CSU will pursue energy procurement and production to reduce energy capacity requirements from fossil fuels, *enhance electrical demand flexibility*, and promote energy ~~independence~~ *resilience* using available economically feasible technology for on-site ~~and/or~~ renewable generation, *microgrids, and other fossil fuel-free energy storage solutions*. The CSU shall endeavor to increase its self-generated *renewable energy and battery* capacity from 32 ~~44~~ to 80 megawatts (MW) by ~~2030~~ *2020*. (05-New; 14-Revise; 22-Revise)

2. The CSU will consider cost effective opportunities to exceed the State of California and California Public Utilities Commission Renewable Portfolio Standard (RPS) sooner than the established goal of procuring ~~33~~ 60 percent of its electricity needs from renewable sources by ~~2020~~ 2030 consistent with SB 100 (Public Utilities Code §399.11). (05-New; 14-Revise; 22-Revise)
3. *To minimize use of natural gas, campuses will transition from fossil-fuel sourced equipment to electric equipment as replacements or renovations are needed. Any in-kind fossil-fuel sourced equipment will be justified through an analysis which demonstrates why that solution represents the most cost-effective option and what alternatives were analyzed for comparative purposes. The intention of this item shall be limited to no new investment in, or renewal of, natural gas assets or infrastructure as part of campus projects starting July 1, 2035, with the exception of critical academic program needs.* (22-New)

Energy Conservation, Carbon Reduction and Utility Management

1. All CSU buildings and facilities, regardless of the source of funding for their operation, will be operated in the most energy efficient *manner and transition to a low carbon strategy* without endangering public health and safety and without diminishing the quality of education and the academic program. (78-Adopt; 88-Revise; 01-No Change; 04-No Change; 14-Revise; 22-Revise)
2. All CSU campuses shall continue to identify energy efficiency *and carbon reduction* improvement measures to the greatest extent possible, undertake steps to seek funding for their implementation and, upon securing available funds, expeditiously implement the measures. (78-Adopt; 88-Revise; 01-No Change; 04-No Change; 14-Revise; 22-Revise)
3. The CSU will cooperate with federal, state, and local governments and other appropriate organizations in accomplishing energy conservation, *and carbon reduction*, and utilities management objectives throughout the state; and inform students, faculty, staff and the general public of the need for and methods of energy conservation, *and carbon reduction*, and utilities management. (78-Adopt; 88-Revise; 01-No Change; 04-No Change; 14-No Change; 22-Revise)
4. Each CSU campus shall designate an energy/utilities *staff* with the responsibility and the authority for carrying out energy conservation and utilities management programs. The Chancellor's Office will have the responsibility to coordinate the individual campus programs into a systemwide program. (78-Adopt; 88-Revise; 01-No Change; 04-No Change; 14-No Change; 22-Revise)
5. The CSU will monitor monthly energy and utility usage on all campuses and the Chancellor's Office and will prepare a systemwide annual report on energy utilization and greenhouse gas emissions. The Chancellor's Office will maintain a systemwide energy database in which

monthly campus data will be compiled to produce systemwide energy reporting. Campuses will provide the Chancellor's Office the necessary energy and utility data, such as electricity and natural gas consumption; water and sewer usage; fuel consumed by fleet vehicles, boats, and ships; waste disposal for the systemwide database in a timely manner. (78-; 88- Adopt; 01-Revise; 04-No Change; 14-Revise; 22-No Change)

6. Each CSU campus ~~is encouraged to~~ *shall* develop and maintain a campuswide *utility master plan which includes an integrated strategic energy resource plan, with tactical recommendations in the areas of new construction, decarbonization, deferred maintenance, climate resilience, facility renewal, energy projects, water conservation, solid waste management, and an energy management plan. This plan will be updated every 10 years and guide the overall energy and climate action program at each campus.* (78-Adopt; 88-Revise; 01-Revise; 04-Revise; 14-Revise; 22-Revise)

Water Conservation

1. All CSU campuses shall pursue *cost effective* water resource conservation to reduce consumption by 10 percent by 2030, *as compared to a 2019 baseline, by 10 percent by 2016, and 20 percent by 2020 consistent with AB 1668 (California Water Code §10609)* including ~~such~~ steps to develop sustainable, *drought tolerant or native* landscaping, *reduce turf*, install controls to optimize irrigation water use, reduce water usage in restrooms, showers, *fountains and decorative water features*, and promote the use of reclaimed/recycled water. In the event of a declaration of drought, the CSU will cooperate with the state, city, and county governments to the greatest extent possible to reduce water use. (78-; 88-Adopt; 01-No Change; 04-No Change; 14-Revise; 22-Revise)

Sustainable Procurement

1. Campuses shall promote use of suppliers and/or vendors who reduce waste, re-purpose recycled material, or support other environmentally friendly practices in the provision of goods or services to the CSU under contract. This may include additional evaluation points in solicitation evaluations for suppliers integrating sustainable *and socially responsible* practices. (14-New; 22-Revise)
2. To move to zero waste, campus practices should: (1) encourage use of products that minimize the volume of trash sent to landfill or incinerators; (2) participate in the CalRecycle Buy-Recycled program or equivalent; and (3) increase recycled content purchases in all Buy-Recycled program product categories. (14-New; 22-No Change)

3. Campuses shall continue to report on all recycled content product categories, consistent with PCC § 12153-12217 and shall implement improved tracking and reporting procedures for their recycled content purchases. (14-New; 22-No change)
4. *Campuses shall align procedures with state initiatives to report environmental product declarations for select construction materials, consistent with PCC §3500-3505 and state mandates.* (22-New)
5. *Campuses shall promote circular economies² by seeking to reduce waste when considering materials purchases, including but not limited to, office supplies, equipment, classroom supplies, and promotional and giveaway items by minimizing purchase of items that have a short useful life, are unable to be recycled, and/or are made of unsustainable or carbon intensive materials.* (22-New)

Waste Management

1. Campuses shall seek to reduce ~~the landfill bound waste solid waste disposal rate~~ *to 50 percent of total campus waste by 2030, by and to 80 percent by 2040 2016, by 80 percent by 2020, and move to zero waste.* (14-New; 22-Revise)
2. *Campuses shall identify and implement cost effective opportunities for organics diversion, collection, and disposal and shall designate zero waste responsibilities for coordinating campus waste prevention, reduction and diversion efforts. Campuses will continue to report on all disposal activities using the CalRecycle State Agency Reporting Center (SARC) and are encouraged to coordinate and maintain a solid waste management plan as it is a requirement in the utility master plan.* (22-New)
3. The CSU will continue to reduce hazardous waste disposal while supporting the academic program. (14-New)

Sustainable Food Service

1. All campus food service organizations should track *and increase/improve* their sustainable food purchases. ~~Such tracking and reporting will be grounded in the Real Food Challenge guidelines, or equivalent, with consideration to campus requested improvements. Campuses~~

² Circular economies promote reduced use of resources and generation of waste in products/services, recycling and reuse of materials and products and improved re-generation of waste to promote natural resources.

~~shall strive to increase their sustainable food purchases to 20 percent of total food budget by 2020.~~ (14-New; 22-Revise)

2. Campuses and food service organizations shall collaborate to provide information and/or training *to staff and patrons on the benefits of, and how to successfully participate in* sustainable food service operations. ~~and their benefits to staff and patrons.~~ (14-New; 22-Revise)

Sustainable Building & Lands Practices

1. All future CSU new construction, remodeling, renovation, and repair projects, *regardless of funding source*, will be designed with consideration of optimum energy utilization, *decarbonization*, and low life-cycle operating costs and shall exceed all applicable energy codes and regulations (*California Building Energy Efficiency Standards, Tit. 24 CCR § 6*) by ten percent. In the areas of specialized construction that are not regulated through the current *energy standards*, such as historical buildings, museums, and auditoriums, the CSU will ensure that these facilities are designed to ~~consider~~ *maximize* energy efficiency. Energy efficient and sustainable design features in the project plans and specifications will be considered in balance with the academic program needs of the project within the available project budget. (78-Adopt; 88-Revise; 01-Revise; 04-Revise; 14-Revise; 22-Revise)
2. Capital planning for state, non-state facilities and infrastructure shall consider features of a sustainable and durable design to achieve a low life cycle cost. *Campuses shall design, construct, operate, and maintain green building certified high performing buildings, regardless of funding source, that improve occupant productivity and wellness, optimize life-cycle costs, and minimize carbon impact.* Principles and best practices established by leading industry standards or professional organizations shall be implemented to the greatest extent possible. ~~The CSU is supportive of campuses pursuing third party accreditation for campus facilities; however current Department of Finance (DOF) policy does not permit the use of state capital funds for such administrative costs. Therefore, campuses considering outside accreditation shall identify alternative means of funding for associated costs.~~ (04-Adopt; 14-Move; 22-Return & Revise)
3. *Existing building energy performance will be optimized through improved operation, maintenance and repair, and capital improvement, enabling campuses to meet carbon reduction goals.* Sustainable design for capital projects is a process of balancing long-term institutional needs for academic and related programs with environmental concerns. In the context of designing to provide for university and academic needs, the following attributes will be considered “sustainable:”

- a. Siting and design considerations that optimize local geographic features to improve sustainability of the project, such as proximity to public transportation and maximizing use of vistas, microclimate, and prevailing winds;
 - b. Durable systems and finishes with long life cycles that minimize maintenance and replacement.
 - c. Optimization of layouts and designing spaces that can be reconfigured with the expectation that the facility will be renovated and re-used (versus demolished);
 - d. Systems designed for optimization of energy, water, and other natural resources;
 - e. Optimization of indoor environmental quality for occupants;
 - f. Utilization of environmentally preferable products and processes, such as *long life-cycle materials and components*, recycled-content and recyclable materials;
 - g. Procedures that monitor, trend, and report operational performance as compared to the optimal design and operating parameters.
 - h. *Cost-effective design features which align with CSU Basic Needs Initiative and support campus diversity, equity and inclusion efforts.* (04-Adopt; 14-Move, 22-Return & Revise)
4. In order to implement the sustainable building goal in a cost-effective manner, the process will: identify economic and environmental performance measures; determine cost savings; use extended life cycle costing; and adopt an integrated systems approach. Such an approach treats the entire building as one system and recognizes that individual building features, such as lighting, windows, heating and cooling systems, or control systems are not stand-alone systems. (04-Adopt; 14-Move; 22-Return)
5. Capital Planning, Design and Construction in the Chancellor's Office shall monitor building sustainability/energy performance and maintain information on design best practices to support the energy efficiency goals and guidelines of this policy. The sustainability performance shall be based on Leadership in Energy and Environmental Design (LEED) principles with consideration to the physical diversity and microclimates within the CSU. (05-New; 14-Revise; 22-No Change)
6. The CSU shall design and build all new buildings and major renovations to meet or exceed the minimum requirements equivalent to LEED Silver. Each campus shall strive to achieve a higher standard equivalent to LEED Gold or Platinum within project budget constraints. Each campus may pursue external certification through the LEED process *or alternative sustainable building rating systems. If the project is not registered through U.S. Green Building Council, then a qualified campus staff member shall evaluate the documentation necessary to determine LEED equivalence and shall attest that equivalence has been achieved.* (05-New; 14-Revise; 22-Revise)

7. *In informal or unlandscaped areas, and where appropriate, campuses will work to support a naturally functioning habitat, promote biodiversity, and preserve native landscapes.* (22-New)

Physical Plant Management

1. Each campus shall operate and maintain a comprehensive energy management system that will provide centralized reporting and control of the campus energy *and carbon reduction* related activities. (78-Adopt; 88-Revise; 01-Revise; 04-No Change; 14-Revise; 22-Revise)
2. Campus energy/utilities managers will make the necessary arrangements to achieve optimum efficiency in the use of natural gas, electricity, or any other purchased energy resources to meet the heating, cooling, and lighting needs of the buildings and/or facilities. *Campuses shall strive to adhere to Statewide energy efficiency guidance regarding appropriate indoor temperature setpoints during heating and cooling periods (State Administrative Manual, Section: 1805.3).* Except for areas requiring special operating conditions, such as electronic data processing facilities, or other scientifically critical areas, where rigid temperature controls are required, building and/or facility temperatures will be allowed to fluctuate between the limits stated above. Simultaneous heating and cooling operations to maintain a specific temperature in work areas will not be allowed unless special operating conditions dictate such a scheme to be implemented. (78-; 88-Adopt; 01-No Change; 04-No Change, 14-Revise; 22-Return & Revise)
3. To the extent possible, academic and non-academic programs will be consolidated in a manner to achieve the highest building utilization. (78-; 88-Adopt; 01-No Change; 04-No Change; 14-Revise; 22-No Change)
4. All CSU campuses shall implement a utilities chargeback system to recover direct and indirect costs of utilities provided to self-supporting and external organizations pursuant to procedures in the *CSU Policy Library* ~~Integrated California State University Administrative Manual (ICSUAM)~~. (78-; 88-Adopt; 01-No Change; 04-No Change; 14-Revise; 22-Revise)

Transportation

1. The CSU will encourage and promote the use of alternative transportation and/or alternative fuels to reduce GHG emissions related to university associated transportation, including commuter and business travel. *The Chancellor's Office will establish a baseline for carbon emissions from student, faculty and staff commuting and establish a systemwide reduction target.* (14-New; 22-Revise)

2. *All CSU campuses shall develop and maintain a transportation demand management (TDM) plan to reduce Vehicle Miles Traveled (VMT) and carbon emissions. This plan will be updated, at minimum, every 10 years and guide the overall transportation and parking program at each campus.* (22-New)
3. The CSU will encourage and promote the use of alternative transportation and/or alternative fuels to reduce *carbon* ~~GHG~~ emissions related to university associated with transportation, including commuter and business travel. (14-New; 22-Revise)
3. *Campuses shall strive to increase Electric Vehicle (EV), electric bicycle, and other electric mobility and transportation device charging infrastructure and incentive programs to further support campus carbon reduction strategies.* (22-New)
4. *Campuses shall strive to develop and maintain a long-range plan for transitioning fleet, and grounds equipment to zero emissions, excluding public safety patrol vehicles if necessary. Fifty percent (50%) of all light duty vehicle purchases will be ZEV by 2035, with no addition of gas-powered light duty vehicles to the fleet after 2035. All small off-road engine (SORE) equipment used for campus grounds will be all-electric by 2035. All buses and heavy-duty vehicles will be ZEV by 2045 in alignment with State regulations.* (22-New)

California State University Sustainability Policy

Summary

This policy is intended to position the nation's largest university system as a leader in the teaching and use of applied research to educate climate literate students equipped to solve the complex challenges of the world and prepare them for an evolving workforce. In addition, the policy encompasses the tenets of human and ecological health, social justice, economic vitality, and promotes the environmental sustainability of CSU's operations for our built environment.

University Sustainability

1. The CSU will seek to further integrate sustainability and climate literacy into the academic curriculum working within the normal campus consultative process. Activities can include but will not be limited to supporting multi-disciplinary course development, utilizing the campus as a living laboratory model, connecting sustainability with social justice, strengthening community partnerships, and creating appropriate learning outcomes. Progress shall be measured through the use of the AASHE STARS¹ platform. (14-New; 22-Revise)
2. The CSU shall promote environmental and social justice through new and existing Diversity, Equity, & Inclusion (DE&I) programs such as the CSU Basic Needs Initiative. (22-New)
3. The CSU will develop employee and student workforce skills in the green jobs industry, climate-related industry, promote the development of sustainable products and services, and foster economic development. (14-New; 22-Revise)
4. The CSU will pursue sustainable practices, using AASHE STARS for guidance and reporting, in all areas of the university, including:
 - a. business operations such as procurement; information technology; student and employee services; food services; events, habitat and land-use management, facilities operations; design and construction; and
 - b. self-funded entities such as student housing, student unions, parking and transportation, children's centers, and auxiliary operations. (14-New; 22-Revise)
5. Each CSU will designate a sustainability officer/staff member responsible for planning and/or coordinating campus sustainability program efforts. (14-New; 22-Revise)

¹ Association for the Advancement of Sustainability in Higher Education's Sustainability Tracking and Reporting System (STARS). For more information and to access the reporting platform, please visit: <https://stars.aashe.org/>

Climate Action Plan

1. CSU will strive to reduce systemwide facility carbon emissions to 40 percent below 1990 levels consistent with SB 32, California's Global Warming Solutions Act of 2006 (HSC §38566, effective January 1, 2017). Emissions will include both state and auxiliary organization purchases of electricity and natural gas; fleet, marine vessel usage; and other emissions the university or self-support entity has direct control over. The Chancellor's Office staff will provide the baseline 1990 facility emission levels (for purchased electricity and natural gas) for the campuses that existed at that time and assist campuses added to the CSU after 1990 to determine their appropriate baseline. (14-New; 22-Revise)
2. The CSU will strive to reduce facility carbon emissions to 80 percent below 1990 levels by 2040 in order to achieve carbon neutrality by 2045 in accordance with Statewide mandates. Metrics will include GHG emissions per FTE. (14-New; 22-Revise)

Energy Resilience and Procurement

1. The CSU will pursue energy procurement and production to reduce energy capacity requirements from fossil fuels, enhance electrical demand flexibility, and promote energy resilience using available economically feasible technology for on-site renewable generation, microgrids, and other fossil fuel-free energy storage solutions. The CSU shall endeavor to increase its self-generated renewable energy and battery capacity from 32 to 80 megawatts (MW) by 2030. (05-New; 14-Revise; 22-Revise)
2. The CSU will consider cost effective opportunities to exceed the State of California and California Public Utilities Commission Renewable Portfolio Standard (RPS) sooner than the established goal of procuring 60 percent of its electricity needs from renewable sources by 2030 consistent with SB 100 (PUC§399.11). (05-New; 14-Revise; 22-Revise)
3. To minimize use of natural gas, campuses will transition from fossil-fuel sourced equipment to electric equipment as replacements or renovations are needed. Any in-kind fossil-fuel sourced equipment will be justified through an analysis which demonstrates why that solution represents the most cost-effective option and what alternatives were analyzed for comparative purposes. The intention of this item shall be limited to no new investment in, or renewal of, natural gas assets or infrastructure as part of campus projects starting July 1, 2035, with the exception of critical academic program needs. (22-New)

Energy Conservation, Carbon Reduction and Utility Management

1. All CSU buildings and facilities, regardless of the source of funding for their operation, will be operated in the most energy efficient manner and transition to a low carbon strategy without endangering public health and safety and without diminishing the quality of education and the academic program. (78-Adopt; 88-Revise; 01-No Change; 04-No Change; 14-Revise; 22-Revise)
2. All CSU campuses shall continue to identify energy efficiency and carbon reduction improvement measures to the greatest extent possible, undertake steps to seek funding for their implementation and, upon securing available funds, expeditiously implement the measures. (78-Adopt; 88-Revise; 01-No Change; 04-No Change; 14-Revise; 22-Revise)
3. The CSU will cooperate with federal, state, and local governments and other appropriate organizations in accomplishing energy conservation, and carbon reduction, and utilities management objectives throughout the state; and inform students, faculty, staff and the general public of the need for and methods of energy conservation, and carbon reduction, and utilities management. (78-Adopt; 88-Revise; 01-No Change, 04-No Change; 14-No Change; 22-Revise)
4. Each CSU campus shall designate an energy/utilities staff with the responsibility and the authority for carrying out energy conservation and utilities management programs. The Chancellor's Office will have the responsibility to coordinate the individual campus programs into a systemwide program. (78-Adopt; 88-Revise; 01-No Change; 04-No Change; 14-No Change; 22-Revise)
5. The CSU will monitor monthly energy and utility usage on all campuses and the Chancellor's Office and will prepare a systemwide annual report on energy utilization and greenhouse gas emissions. The Chancellor's Office will maintain a systemwide energy database in which monthly campus data will be compiled to produce systemwide energy reporting. Campuses will provide the Chancellor's Office the necessary energy and utility data, such as electricity and natural gas consumption; water and sewer usage; fuel consumed by fleet vehicles, boats, and ships; waste disposal for the systemwide database in a timely manner. (78-; 88- Adopt; 01-Revise; 04-No Change; 14-Revise; 22-No Change)
6. Each CSU campus shall develop and maintain a campuswide utility master plan which includes an integrated strategic energy resource plan, with tactical recommendations in the areas of new construction, decarbonization, deferred maintenance, climate resilience, facility renewal, energy projects, water conservation, solid waste management, and an energy management plan. This plan will be updated every 10 years and guide the overall energy and climate action program at each campus. (78-Adopt; 88-Revise; 01-Revise; 04-Revise; 14-Revise; 22-Revise)

Water Conservation

1. All CSU campuses shall pursue cost effective water resource conservation to reduce consumption by 10 percent by 2030, as compared to a 2019 baseline, consistent with AB 1668 (California Water Code § 10609) including steps to develop sustainable, drought tolerant or native landscaping, reduce turf, install controls to optimize irrigation water use, reduce water usage in restrooms, showers, fountains and decorative water features, and promote the use of reclaimed/recycled water. In the event of a declaration of drought, the CSU will cooperate with the state, city, and county governments to the greatest extent possible to reduce water use. (78-; 88-Adopt; 01-No Change; 04-No Change; 14-Revise; 22-Revise)

Sustainable Procurement

1. Campuses shall promote use of suppliers and/or vendors who reduce waste, re-purpose recycled material, or support other environmentally friendly practices in the provision of goods or services to the CSU under contract. This may include additional evaluation points in solicitation evaluations for suppliers integrating sustainable and socially responsible practices. (14-New; 22-Revise)
2. To move to zero waste, campus practices should: (1) encourage use of products that minimize the volume of trash sent to landfill or incinerators; (2) participate in the CalRecycle Buy-Recycled program or equivalent; and (3) increase recycled content purchases in all Buy-Recycled program product categories. (14-New; 22-No Change)
3. Campuses shall continue to report on all recycled content product categories, consistent with PCC § 12153-12217 and shall implement improved tracking and reporting procedures for their recycled content purchases. (14-New; 22-No change)
4. Campuses shall align procedures with state initiatives to report environmental product declarations for select construction materials, consistent with PCC §3500-3505 and state mandates. (22-New)
5. Campuses shall promote circular economies² by seeking to reduce waste when considering materials purchases, including but not limited to, office supplies, equipment, classroom supplies, and promotional and giveaway items by minimizing purchase of items that have a

² Circular economies promote reduced use of resources and generation of waste in products/services, recycling and reuse of materials and products and improved re-generation of waste to promote natural resources.

short useful life, are unable to be recycled, and/or are made of unsustainable or carbon intensive materials. (22-New)

Waste Management

1. Campuses shall seek to reduce landfill bound waste to 50 percent of total campus waste by 2030, and to 80 percent by 2040, and move to zero waste. (14-New; 22-Revise)
2. Campuses shall identify and implement cost effective opportunities for organics diversion, collection, and disposal and shall designate zero waste responsibilities for coordinating campus waste prevention, reduction and diversion efforts. Campuses will continue to report on all disposal activities using the CalRecycle State Agency Reporting Center (SARC) and are encouraged to coordinate and maintain a solid waste management plan as it is a requirement in the utility master plan. (22-New)
3. The CSU will continue to reduce hazardous waste disposal while supporting the academic program. (14-New)

Sustainable Food Service

1. All campus food service organizations should track and increase/improve their sustainable food purchases. (14-New; 22-Revise)
2. Campuses and food service organizations shall collaborate to provide information and/or training to staff and patrons on the benefits of, and how to successfully participate in sustainable food service operations. (14-New; 22-Revise)

Sustainable Building & Lands Practices

1. All future CSU new construction, remodeling, renovation, and repair projects, regardless of funding source, will be designed with consideration of optimum energy utilization, decarbonization, and low life-cycle operating costs and shall exceed all applicable energy codes and regulations (Building Energy Efficiency Standards, Tit. 24 CCR § 6) by ten percent. In the areas of specialized construction that are not regulated through the current energy standards, such as historical buildings, museums, and auditoriums, the CSU will ensure that these facilities are designed to maximize energy efficiency. Energy efficient and sustainable design features in the project plans and specifications will be considered in balance with the

academic program needs of the project within the available project budget. (78-Adopt; 88-Revise; 01-Revise; 04-Revise; 14-Revise; 22-Revise)

2. Capital planning for state, non-state facilities and infrastructure shall consider features of a sustainable and durable design to achieve a low life cycle cost. Campuses shall design, construct, operate, and maintain green building certified high performing buildings, regardless of funding source, that improve occupant productivity and wellness, optimize life-cycle costs, and minimize carbon impact. Principles and best practices established by leading industry standards or professional organizations shall be implemented to the greatest extent possible. (04-Adopt; 14-Move; 22-Return & Revise)
3. Existing building energy performance will be optimized through improved operation, maintenance and repair, and capital improvement, enabling campuses to meet carbon reduction goals. Sustainable design for capital projects is a process of balancing long-term institutional needs for academic and related programs with environmental concerns. In the context of designing to provide for university and academic needs, the following attributes will be considered “sustainable:”
 - a. Siting and design considerations that optimize local geographic features to improve sustainability of the project, such as proximity to public transportation and maximizing use of vistas, microclimate, and prevailing winds;
 - b. Durable systems and finishes with long life cycles that minimize maintenance and replacement.
 - c. Optimization of layouts and designing spaces that can be reconfigured with the expectation that the facility will be renovated and re-used (versus demolished);
 - d. Systems designed for optimization of energy, water, and other natural resources;
 - e. Optimization of indoor environmental quality for occupants;
 - f. Utilization of environmentally preferable products and processes, such as long life-cycle materials and components, recycled-content and recyclable materials;
 - g. Procedures that monitor, trend, and report operational performance as compared to the optimal design and operating parameters.
 - h. Cost-effective design features which align with CSU Basic Needs Initiative and support campus diversity, equity and inclusion efforts. (04-Adopt; 14-Move, 22-Return & Revise)
4. In order to implement the sustainable building goal in a cost-effective manner, the process will: identify economic and environmental performance measures; determine cost savings; use extended life cycle costing; and adopt an integrated systems approach. Such an approach treats the entire building as one system and recognizes that individual building features, such as

lighting, windows, heating and cooling systems, or control systems are not stand-alone systems. (04-Adopt; 14-Move' 22-Return)

5. Capital Planning, Design and Construction in the Chancellor's Office shall monitor building sustainability/energy performance and maintain information on design best practices to support the energy efficiency goals and guidelines of this policy. The sustainability performance shall be based on Leadership in Energy and Environmental Design (LEED) principles with consideration to the physical diversity and microclimates within the CSU. (05-New; 14-Revise; 22-No Change)
6. The CSU shall design and build all new buildings and major renovations to meet or exceed the minimum requirements equivalent to LEED Silver. Each campus shall strive to achieve a higher standard equivalent to LEED Gold or Platinum within project budget constraints. Each campus may pursue external certification through the LEED process or alternative sustainable building rating systems. If the project is not registered through U.S. Green Building Council, then a qualified campus staff member shall evaluate the documentation necessary to determine LEED equivalence and shall attest that equivalence has been achieved. (05-New; 14-Revise; 22-Revise)
7. In informal or unlandscaped areas, and where appropriate, campuses will work to support a naturally functioning habitat, promote biodiversity, and preserve native landscapes. (22-New)

Physical Plant Management

1. Each campus shall operate and maintain a comprehensive energy management system that will provide centralized reporting and control of the campus energy and carbon reduction related activities. (78-Adopt; 88-Revise; 01-Revise; 04-No Change; 14-Revise; 22-Revise)
2. Campus energy/utilities managers will make the necessary arrangements to achieve optimum efficiency in the use of natural gas, electricity, or any other purchased energy resources to meet the heating, cooling, and lighting needs of the buildings and/or facilities. Campuses shall strive to adhere to Statewide energy efficiency guidance regarding appropriate indoor temperature setpoints during heating and cooling periods (State Administrative Manual, Section: 1805.3). Except for areas requiring special operating conditions, such as electronic data processing facilities, or other scientifically critical areas, where rigid temperature controls are required, building and/or facility temperatures will be allowed to fluctuate between the limits stated above. Simultaneous heating and cooling operations to maintain a specific temperature in work

areas will not be allowed unless special operating conditions dictate such a scheme to be implemented. (78-; 88-Adopt; 01-No Change; 04-No Change, 14-Revise; 22- Return & Revise)

3. To the extent possible, academic and non-academic programs will be consolidated in a manner to achieve the highest building utilization. (78-; 88-Adopt; 01-No Change; 04-No Change; 14-Revise; 22-No Change)
4. All CSU campuses shall implement a utilities chargeback system to recover direct and indirect costs of utilities provided to self-supporting and external organizations pursuant to procedures in the CSU Policy Library. (78-; 88-Adopt; 01-No Change; 04-No Change; 14-Revise; 22-Revise)

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