

2024 Sustainability Presentation

Los Rios Community College District

May 8, 2024

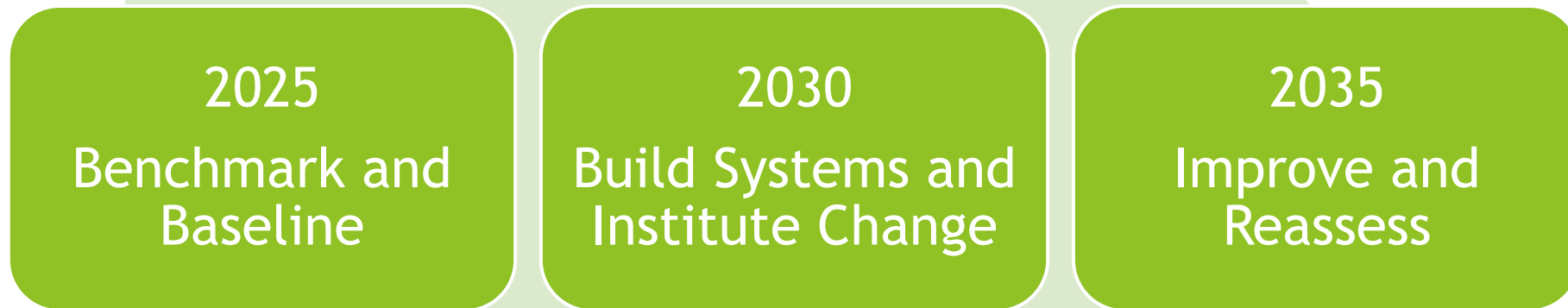
Presented by: Pablo Manzo and Nat Martin

Agenda:

▶ Summary

- ▶ BOG Framework overview with focus on the 2025 requirements.
- ▶ Sustainability Tracking, Assessment & Rating System (STARS).
- ▶ Electric Vehicle(EV) Charging Stations and Fleet Vehicles.
- ▶ Grant Opportunities.

2020 BOG Climate Action and Sustainability Framework Milestones



Los Rios Sustainability Program Policies and Goals:

Est. by California Community College 2020 Board of Governors

Category	Subcategory	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%.

Category	Subcategory	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 using 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 using green infrastructure and low impact development for new buildings and major modifications.

Category	Subcategory	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.

Category	Subcategory	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.

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/>

STARS has four main categories:

Academics	Operations	Engagement	Planning & Administration
<ul style="list-style-type: none">• Curriculum• Research	<ul style="list-style-type: none">• Air & Climate• Buildings• Energy• Food & Drink• Grounds• Purchasing• Transportation• Waste• Water	<ul style="list-style-type: none">• Campus Engagement• Public Engagement	<ul style="list-style-type: none">• Diversity & Affordability• Investment & Finance• Wellbeing & Work

Electric Vehicle Charging Stations

Plan Overview:

- ▶ Since 2018, all new construction projects have required the installation of EV charging stations.
- ▶ 113 EV charging stations district-wide either installed or under construction.
- ▶ Replace 45 existing EV chargers with networked units.
- ▶ Add additional EV chargers district-wide in addition to new construction requirement.

Facilities Management Fleet Vehicles

- ▶ Current inventory is 68 fleet vehicles. Of that 9% are electric.
- ▶ Facilities Management will achieve 18% before the end of 2024.

Grant Programs

- ▶ Giddy Up EV Level-3 charging stations
- ▶ Community in Charge Level-2 EV charging stations
- ▶ Sac Metro Air District
- ▶ GS\$Mart

Future Sustainability Efforts

- ▶ Continue to focus on and to actively pursue and exceed BOG Framework goals 2025, 2030, and 2035.
- ▶ Continue and expand conservation efforts in all areas.
- ▶ Additional water conservation projects.
- ▶ Seek funding for additional emerging technologies, and energy efficiency programs for existing buildings to reduce energy usage and GHG emissions.
- ▶ Increase renewable energy generation and participate in future programs like SMUD's SolarShares Program, and Battery Storage.

Questions?