

Deliverables



S_CAP

Sustainability and Climate Action Plan



IEMP

Integrated Energy Master Plans



TOC

Total Cost of Ownership

Organizations

AASHE

The Association for the Advancement of Sustainability in Higher Education

APPA

Association of Physical Plant Administrators.

CCCCO

California Community College Chancellor's Office.

Types

Buildings

All buildings that are conditioned. This will include unconditioned walkways and canopies that are part of the building.

Non-Buildings

Parking lots, parking garages, sports fields and stadiums.

Mobile

Vehicles owned and operated by RCCD.

Entity-wide

Encompasses the entire District including all its physical and personal assets.

Key Performance Indicators (KPI)

A target value for a metric that can more clearly define a goal. We will know a goal is achieved when a KPI is reached.

Gross Square Footage (GSF)

The overall square footage of a building including the exterior envelope and area under attached canopies. GSF is usually higher than the net square footage that is conditioned.

Electricity Consumption (kWh)

1,000 Watt-hours or 1 Kilowatt hours is a unit of energy being transmitted or used at a constant rate over a period of time.

Electricity Demand (kW)

1,000 Watt or 1 Kilowatt is a unit of power transmitted or used. It is the energy used per unit of time. Electricity demand is often referred to as peak demand. When electrical devices are turned on, they consume massive amounts of energy for a fraction of a second leading to astronomically high-power demand. It is for this reason that billed peak demand is averaged over larger portions of time, called "demand intervals." Typical demand intervals range from 15 to 30 minutes.

Natural Gas Consumption (Therms)

1 therm or 100,000 British thermal units (Btu) is the unit of heat energy. It is approximately the energy equivalent of burning 100 cubic feet (often referred to as 1 CCF) of natural gas.

Heat Energy (kBtu)

1000 Btu's or 1 kBtu is a common unit used in building energy use tracking and heating and cooling system sizing. 1 kW = 3.412 kBtu's. 1 therm = 100 kBtu's.

Energy Use Intensity (EUI)

Expressed in kBtu's/GSF/Year, EUI is the amount of energy consumed by a building per square foot of gross floor area over a period of one year.

Cost (\$)

US Dollars expressed for first costs and utility costs. Future costs are also expressed in today costs and no net present value is accounted for.

Green House Gas Emissions – GHG

Expressed as Pounds of Carbon Dioxide Equivalent – lbs. of CO₂, GHG emissions represents quantity of any of the atmospheric gases that contribute to the greenhouse effect by absorbing infrared radiation produced by solar warming of the Earth's surface. They include carbon dioxide (CO₂), methane (CH₄), nitrous oxide (NO₂) and water vapor.

Water – Gallons

Expressed as the unit of volume of water, gallons apply to both potable water quantity as well as reused or reclaimed water quantity.

Timeline

Present

This timeline represents 2019-2021 as that was the most comprehensive data set available during the scope of the planning process. It is also referred to as Today.

Measures Taken in the Past

This timeline generally refers to energy and water efficiency projects already taken place during the implementation of Prop 39 and Measure E & LB bond projects.

Baselines in the Past

Baselines refer to a time in the past for which a particular KPI is measured at that time and set for comparison of progress in the present and in the future.

Future Target

This timeline refers to a time in the future for which a particular KPI is set as a goal to achieve.

Future

This generally is any time after the publication of the SCAP, IEMP or TOC.

Strategy Categories

Use-Reduce

These set of efficiency strategies generally lead to a reduction in the need for a resource such as energy and water or propose alternative uses of the same resource. These strategies also include optimization of space as a resource.

Sustainability Frameworks

VALUES

This is a framework developed by DLR Group to expand the conversation of sustainability and connect to User Experience.

STARS

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