



SANTA MONICA-MALIBU UNIFIED SCHOOL DISTRICT

Plan for Districtwide Sustainability



Board Meeting
September 20, 2018

VISION

The SMMUSD District-wide Sustainability Plan will lay out a roadmap for

- **Uniting** SMMUSD's many existing sustainability initiatives;
- **Incorporating** sustainability into Education Services and all aspects of student learning; and
- **Integrating** climate protection, resource efficiency, waste management, and other sustainability practices into District operations.



SUSTAINABILITY FOCUS AREAS

- 🌀 Education & Engagement
- 🌀 Energy Efficiency & Renewables
- 🌀 Food, Nutrition & Wellness
- 🌀 Green Buildings and Operations
- 🌀 Water
- 🌀 Solid Waste
- 🌀 Transportation
- 🌀 Material Procurement



PLANNING PROCESS

Phase 1: ENGAGE (*Complete – May 2018*)

- Sustainability Steering Committee
- Stakeholder Interviews:
 - *M&O*
 - *Ed Services*
 - *Food Services*
 - *PTA*
 - *FOC*
- Community workshops
- ClimateFest

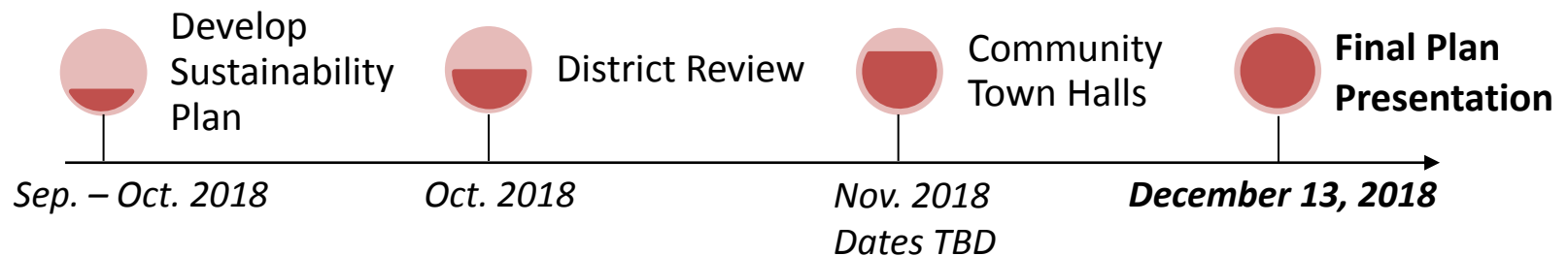


Plan for Districtwide Sustainability

Phase 2: ASSESS AND CREATE (*Complete – August 2018*)

- Review Current Sustainability Programs
- Analyze Energy and Sustainability Data
- Evaluate Potential Sustainability Goals, Objectives, and Strategies

Phase 3: DEVELOP (*Underway*)



SUSTAINABILITY PLAN COMPONENTS

- **Baseline & Performance Metrics:** *Fiscal Year 2017-18*
- **Goals:** 2020, 2025, 2030
- **Current Initiatives**
- **Recommended Strategies**
- **Project Costs & Funding Mechanisms:**
 - Capital Costs
 - Cost Saving Potential
 - Grants

SOLID WASTE

The District recognizes that “the conservation of natural resources and protection of the environment are connected to the District’s educational mission and are essential to the health and well-being of the community” (Board Policy 3511.1 – Integrated Waste Management). Therefore, the District’s solid waste program strives to minimize waste production and landfill disposal resulting from daily operations and construction activities through the implementation of comprehensive waste minimization, reuse, recycling, and organic waste programs. These programs look upstream at purchasing decisions and internal practices in order to improve the efficiency of material resource use, as well as downstream at disposal strategies that minimize environmental impact and support a more circular economy. The Solid Waste program employs the waste hierarchy principle, which prioritizes waste management in the order of: Reduce, Reuse, Recycle, Compost, Transform, Landfill.

The disposal of commercial solid waste in landfills has been identified as a significant source of greenhouse gas emissions, therefore, diverting waste from landfill is also a critical component of the District’s climate protection strategy.

PERFORMANCE INDICATORS

METRICS



Total Waste Generation
Tons of Municipal Solid Waste (MSW) generated annually.



Diversion from Landfill
Percent of Municipal Solid Waste diverted from landfill.



E-Waste Recycling
Percent of e-waste recycled.



Construction + Demolition Recycling
Percent of C&D waste recycled per project.

GOALS

2020	2025	2030	ONGOING
<ul style="list-style-type: none">• Reduce total waste generation by 5% compared to 2017-18 baseline.• Increase diversion from landfill to 35%	<ul style="list-style-type: none">• Reduce total waste generation by 10% compared to 2017-18 baseline.• Increase diversion from landfill to 50%	<ul style="list-style-type: none">• Reduce total waste generation by 20% compared to 2017-18 baseline.• Increase diversion from landfill to 75%	<ul style="list-style-type: none">• Comply with all local, regional, state, and federal solid waste regulations.• Recycle 100% of e-waste.• Exceed CalGreen C&D recycling requirements for all construction projects.

PROGRAM MISSION

Design an integrated waste management program that minimizes the generation of waste, encourages the recovery and diversion of reusable materials from the waste stream, improves efficiency in the utilization of natural and material resources, and protects the environment.

– Board Policy AR 3511.1(a), Integrated Waste Management

Opening of Branching Out Student Tree Nursery



SMMUSD Energy Dashboard

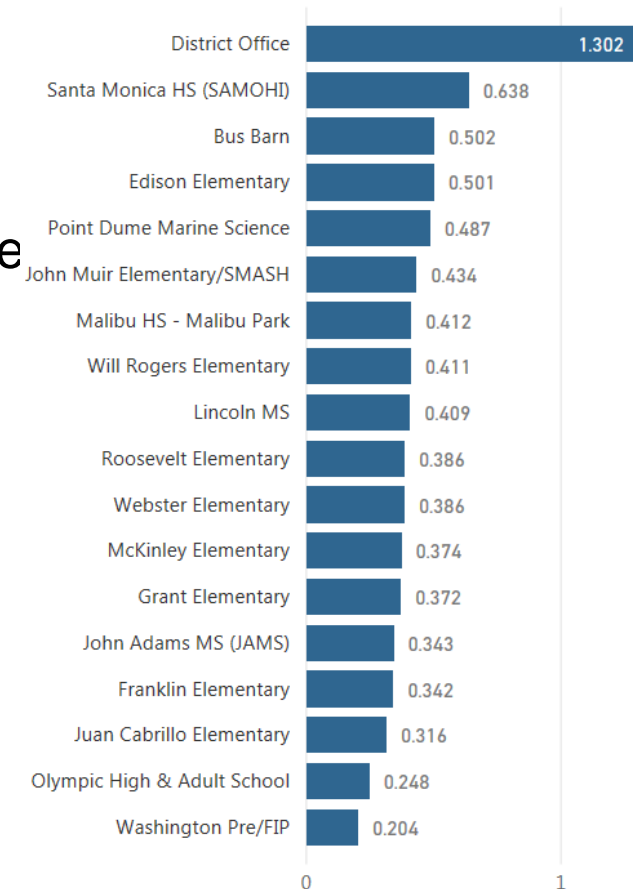
Interactive energy dashboard to monitor and report energy usage and baseline performance

- **Goals:** Reduce 5% energy [465,000 kWh) by June 30th, 2019
- Monthly energy reporting
- Energy competition & behavior change

Operational projects:

- Prop 39 Lighting installation
- Solar Phase I

Total Electricity Used (kWh) per Square Foot



Electric Energy Usage

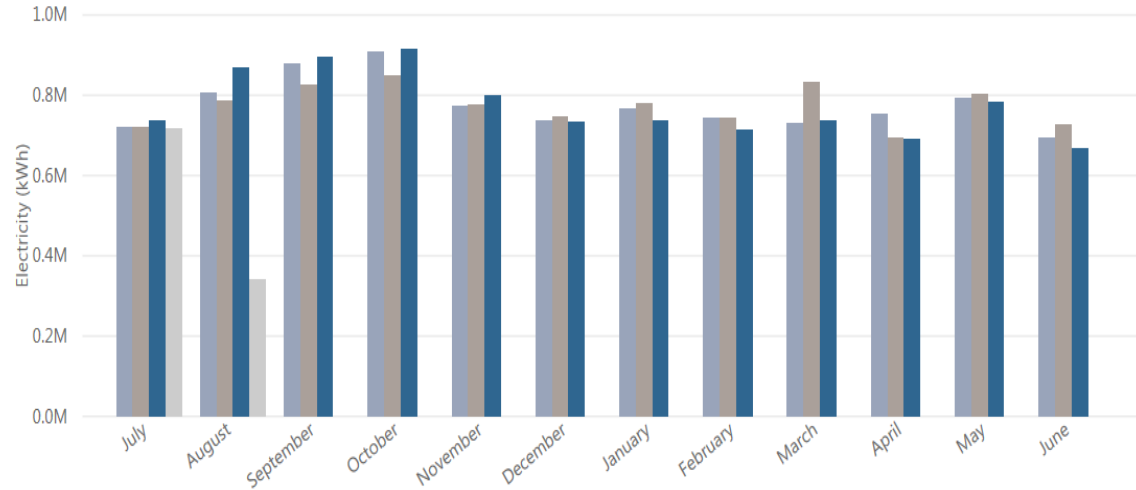
Electric Energy Cost



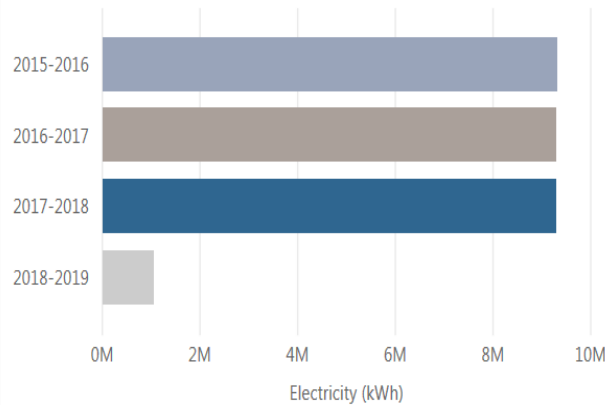
Total Electric Usage by Month and Fiscal Year

FY ● 2015-2016 ● 2016-2017 ● 2017-2018 ● 2018-2019

All

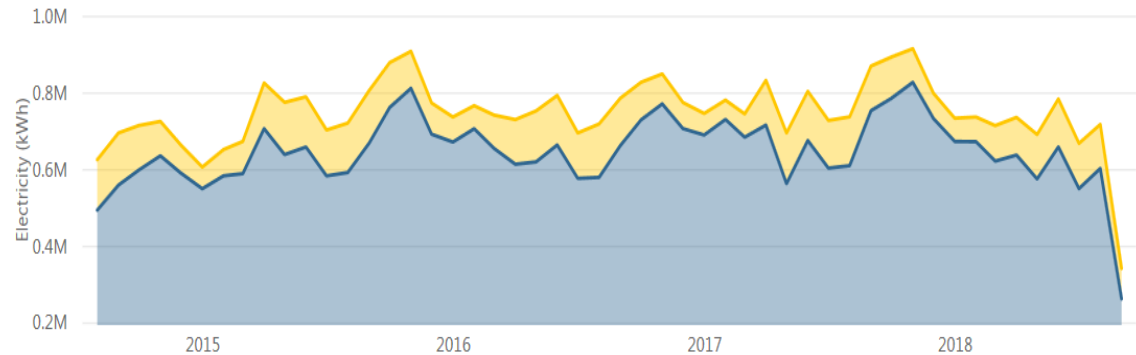


Total Electricity Usage by Fiscal Year



Total Energy Use by Month and Source

● Utility Purchased (kWh) ● Solar Generation (kWh)



Questions?

Contact:

**Caroline Coster, Sustainability
Coordinator**

Email: ccoster@smmusd.org

