

Construction Update

Update on Malibu Sites Alternative Power Projects

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TO: Malibu Community
FROM: Austin Toyama
Sustainability Manager

RE: Update on Malibu Sites Alternative Power Projects

The Malibu Sites Alternative Power Projects are underway. Phase 1 of the projects is the Quick Connect (generator) scope and Phase 2 is the Solar Alternative Power scope. In fall of 2025 the four electrical services serving Malibu ES, Webster ES, and Malibu Middle/High School campuses were equipped with quick connect systems and backup generators to allow for a manual transfer of power from the utility to our District-owned generators.

As part of phase 2, the early procurement purchase of solar panels for Malibu Middle/High School's hillside solar array took place in December 2025. This early purchase enables the District to secure tax credits for the solar panels and facilitate timely delivery and project execution. The tax credits are technically utilized by the installer, and the savings will be passed on to the District through the agreement.

We are in design development for the solar microgrids at Malibu Middle/High School, Malibu Elementary, and Webster Elementary. The District is moving forward with the early procurement purchase of energy management systems, microgrid controllers, and new switchboards for Malibu Elementary and Webster Elementary. These are long lead time items that, if purchased now, will ensure timely installation in Fall 2026 in alignment with the project schedule. Once installed, these systems will provide an automatic transfer of power to the schools without needing qualified personnel on site to facilitate the switch. These systems will significantly reduce the amount of academic time lost due to planned and unplanned power outages and interruptions.

Energy Savings Estimates

Schneider Electric's analysis of the future solar microgrid systems (battery energy storage systems) includes the impacts of powering the schools with solar and reducing the peak electrical

demand at each site annually.

Please remember while energy savings are helpful, the project is not planned to recoup all costs of installation and maintenance. The savings will come close to the cost over the 20 years amortization of the equipment. The primary goal is to reduce learning loss cost by school being closed when there is no power.

Total Annual Utility Savings: \$210,705

Annual Savings by Site

Solar – Malibu MS/HS: \$71,790

Microgrid – Malibu MS/HS: \$126,185

Microgrid – Malibu ES: \$7,920

Microgrid – Webster ES: \$4,820

Project Costs to Date

Phase 1 – Quick Connect (generator) project

Quick connect design and construction [Measure M]: \$664,750.00

(4) New generators [Measure M]: \$668,338.85

Cables and equipment for new generators [Measure MM]: \$80,785.89

Rental generators and cables **[General Fund]: \$100,243.00**

Phase 2 – Solar Alternative Power project [Measure M]

Design costs (all sites): \$650,515.00

Early Purchase of Malibu MS/HS solar panels: \$290,443.00

Early Purchase of Webster ES and Malibu ES energy mgmt. systems, microgrid controllers, switchboards: \$821,490.00

Total Project Costs: \$3,276,565.74



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