

**ENERGY AND WATER MANAGEMENT**

The Governing Board recognizes the environmental and financial benefits that can be derived from conserving energy, water, and other natural resources, preparing for extreme weather and other natural events, and providing an environment that promotes the health and well-being of students and staff. To support district goals for energy and water management, the Superintendent or designee shall develop a resource management program which may includes strategies for implementing effective and sustainable resource use practices, exploring the use of renewable and clean energy technology and/or sources, reducing energy and water consumption, and promoting conservation principles in the educational program.

*(cf. 0200 - Goals for the School District)*

*(cf. 3100 - Budget)*

*(cf. 3300 - Expenditures and Purchases)*

*(cf. 3510 - Green School Operations)*

*(cf. 3511.1 - Integrated Waste Management)*

*(cf. 3512 - Equipment)*

*(cf. 6142.5 - Environmental Education)*

The Superintendent or designee may solicit input from staff, students, and parents/guardians ~~about~~ regarding the district's resource management program. The Superintendent or designee shall provide staff and students with training and guidance on best practices to achieve the district's goals, and may establish a reward program to recognize outstanding accomplishments.

*(cf. 1150 - Commendation and Awards)*

The Superintendent or designee shall regularly inspect district facilities, monitor ~~and~~ operations, and make recommendations for maintenance and repairs which may help the district reach its conservation and management goals and improve efficiency.

*(cf. 7110 - Facilities Master Plan)*

*(cf. 7111 - Evaluating Existing Buildings)*

The Superintendent or designee shall make every effort to identify funding opportunities and cost-reducing incentive programs to help the district achieve its conservation and management goals. The district may coordinate with other local or regional entities to capitalize on their expertise and maximize the efficient use of resources, such as through joint or shared use agreements.

*(cf. 1330.1 - Joint Use Agreements)*

*(cf. 1400 - Relations Between Other Governmental Agencies and the Schools)*

The Superintendent or designee shall regularly report to the Board on the district's progress in meeting its conservation and resource management goals.

## ENERGY AND WATER MANAGEMENT (continued)

### **Storm Water Management**

To the maximum extent practicable, the district shall reduce the discharge of pollutants into the water system in order to minimize the threat to water quality from storm water runoff.

The Superintendent or designee shall ensure that the district complies with storm water discharge standards specified by any applicable General Permit requirements coverage required by law, including all requirements of the Construction General Permit issued by the State Water Resources Control Board for any project that disturbs one acre or more of soil. (40 CFR 122.34)

*(cf. 3514 - Environmental Safety)*

*(cf. 3514.1 - Hazardous Substances)*

*(cf. 3514.2 - Integrated Pest Management)*

The Superintendent or designee shall develop a storm water management plan that complies with the provisions of the applicable permit and describes best management practices, design strategies, measurable goals, and timetables for implementation. The plan and a resolution authorizing its implementation shall be submitted to the Board for approval. (40 CFR 122.34)

For all projects, the district shall comply with any city or county ordinance that regulates drainage improvements and conditions. (Government Code 53097)

### **Emergency Interruption of Services**

The Superintendent or designee shall develop a plan to minimize disruption to the educational program in the event of power outages or other emergency interruption of utility services. The plan shall include actions to be taken to facilitate student and staff safety, administrative control of operations, protection of equipment, effective communications, and coordination with local fire, police, and emergency personnel and utility service providers.

*(cf. 0450 - Comprehensive Safety Plan)*

*(cf. 3516 - Emergencies and Disaster Preparedness Plan)*

*(cf. 3516.5 - Emergency Schedules)*

*Legal Reference: (see next page)*

## ENERGY AND WATER MANAGEMENT (continued)

### Legal Reference:

#### EDUCATION CODE

17213.1 School sites

17280 Construction of school buildings

35275 Coordination of new facilities with recreation and park authorities

41422 School term or session length, failure to comply due to disaster

46392 Emergency conditions; ADA estimate

#### GOVERNMENT CODE

53097 Local agencies

#### PUBLIC RESOURCES CODE

25410-25421 Energy conservation assistance

#### WATER CODE

189.3 Recommendations for best design and use practices

13383 Compliance with the federal Water Pollution Control Act

13383.5 Storm water discharge monitoring requirements

#### CODE OF REGULATIONS, TITLE 23

490-495 Model Water Efficient Landscape Ordinance

2200 Discharge permit fees

#### UNITED STATES CODE, TITLE 33

1342 National pollutant discharge elimination system

#### CODE OF FEDERAL REGULATIONS, TITLE 40

122.1-122.64 National pollutant discharge elimination system

### Management Resources:

#### CALIFORNIA DEPARTMENT OF EDUCATION PUBLICATIONS

Guidance for Stormwater and Dry Weather Runoff CAPTURE (California Practices to Use Runoff Effectively) at Schools, December 2018

A Blueprint for Environmental Literacy: Educating Every Student In, About, and For the Environment, 2015  
Average Daily Attendance Credit During Periods of Emergency, Management Advisory 90-01, rev. February 10, 2005

#### CALIFORNIA STATE WATER RESOURCES CONTROL BOARD PUBLICATIONS

Guidance for Design and Construction of Vegetated Low Impact Development Projects, 2016

#### U.S. ENVIRONMENTAL PROTECTION AGENCY PUBLICATIONS

National Management Measures to Control Nonpoint Source Pollution from Urban Areas, 2005

#### WEB SITES

CSBA: <http://www.csba.org>

Alliance to Save Energy: <http://www.ase.org>

California Department of Education, Facilities: <http://www.cde.ca.gov/ls/fa>

California Department of Water Resources: <https://water.ca.gov>

California Division of State Architect: <https://www.dgs.ca.gov/DSA>

California Energy Commission: <http://www.energy.ca.gov>

California State Water Resources Control Board: <http://www.swrcb.ca.gov>

California Stormwater Quality Association: <https://www.casqa.org/resources>

Collaborative for High Performance Schools (CHPS): <https://chps.net>

Green School Yards America: <http://www.greenschoolyards.org>

U.S. Environmental Protection Agency: <http://www.epa.gov>

Policy

adopted: August 8, 2019

COLUMBIA ELEMENTARY SCHOOL DISTRICT

Redding, California

## ENERGY AND WATER MANAGEMENT

In the development of the district's energy and water resource management program, the Superintendent or designee shall analyze the efficiency and environmental impact of, and consider strategies for improving, the following district systems:

1. Lighting;
2. Heating, ventilation, and air conditioning ~~systems~~;
3. Water heaters;
4. Electrical equipment and appliances;
5. Water use and irrigation; including drains, faucets, and pipes
6. Grounds management

*(cf. 7111 - Evaluating Existing Buildings)*

In addition, the district's resource management program may include strategies to address the following:

1. Educational programs that focus on environmental literacy and incorporate the Next Generation Science Standards

*(cf. 6142.5 - Environmental Education)*

*(cf. 6142.93 - Science Instruction)*

2. Outdoor student facilities that are environmentally sustainable and include increased shaded areas to reduce playground temperatures

*(cf. 5141.7 - Sun Safety)*

3. Classroom and building management and maintenance

4. Food services and food waste reduction

*(cf. 3551 - Food Service Operations/Cafeteria Fund)*

5. Landscaping practices, including establishing drought-tolerant habitats

6. Transportation services and maintenance

*(cf. 3540 - Transportation)*

## ENERGY AND WATER MANAGEMENT (continued)

7. Inclusion of best practices for water management in new construction projects

*(cf. 7110 - Facilities Master Plan)*

8. Administrative operations that focus on cost reduction and conservation

*(cf. 3400 - Management of District Assets/Accounts)*

9. Regular equipment maintenance and repair

*(cf. 3512 - Equipment)*

### **Storm Water Management**

The Superintendent or designee shall implement a storm water management plan that complies with applicable state and federal law and local ordinances. The plan shall include best practices designed to reduce waste, pollution, environmental degradation, and damage to school facilities and infrastructure by:

1. Incorporating water capture and filtration systems for storm water when necessary
2. Emphasizing school practices and school design that reduce runoff and human pollutants, such as plastics, oils, grease, metals, and pesticides
3. Preserving, creating, and enhancing natural areas and greenspace that aid in storm water and dry weather capture
4. Minimizing impervious surface area and controlling runoff from impervious surfaces
5. Utilizing, when possible, soils that promote infiltration
6. Incorporating storm water design signage features and learning opportunities for public education

The Superintendent or designee shall consult with local law enforcement, emergency personnel, and the county office of emergency services in the development of strategies to be implemented in the event of power outages or other emergency interruptions of utility services. The strategies shall prescribe a means of notifying appropriate agencies to ensure all utilities are properly restored after interruption.

*(cf. 3516 - Emergencies and Disaster Preparedness Plan)*

ENERGY AND WATER MANAGEMENT (continued)

**Emergency Interruption of Services**

The Superintendent or designee shall reopen schools and return to normal instructional activities as soon as safe operations can be resumed. If any school will be closed for an extended period of time, the district shall make alternative arrangements for students and staff so as not to interrupt the educational program.

The Superintendent or designee shall communicate with staff, students, and parents/guardians regarding any interruption of educational services due to utility service outages, including any necessary alternative arrangements and the date or time that normal operations of the school are expected to resume.

*(cf. 1100 - Communication with the Public)*

*(cf. 3516.5 - Emergency Schedules)*