Project Green: Student-Driven Water Efficiency Programs

In 2010 McClatchy received an Energy Star rating of 75 from the Environmental Protection Agency. This means it is more efficient than 75% of schools of similar size and population and less efficient than the other 25%.

McClatchy ranks lower than any other school in the district. Rankings with other comprehensive high schools: Johnson 94, Rosemont 84, Kennedy 83, and Burbank 78. The age of our facility and its HVAC, plumbing, and lighting are no doubt a big part of this.

Analyzing facilities at McClatchy is complex because of the many signs of different parts of the school. The majority of the rooms on campus are in the main building, which, along with the gym and shop wing, was built in 1937. The Science Quad and Library were opened in 1980. The D-wing was opened in 2003.
3 quick facts

1. BS and MS in Construction Management from Colorado State University
   Focused on Sustainability and Green Schools

2. Work Experience – Construction Project Manager
   LEED AP

3. Extended Overseas Travel
   Somehow made it to all 7 Continents
OUR MISSION: GREEN SCHOOLS WITHIN THIS GENERATION
green school

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a school building or facility that creates a healthy environment that is conducive to learning while saving energy, resources and money
12th largest school district in California
Serving over 44,000 students
At 82 campuses
72 K-12 schools (44: ES, 6: K-8, 9: MS, 2: Multi, 13: HS)
8 Independent Charter Schools
2 Adult Education Schools

Over 4,300 Employees

Diversity
36% Hispanic or Latino
18.3% Asian
16.3% African American
19% white
About 7% of students are of two or more races or ethnicities

**Speak more than 40 languages**
**38% of students do not speak English at home**
Green to Date

Green apple logo

Sacramento City Unified School District

Old logo
Green to Date

46 Gardens across the District
District Garden Specifications
Healthy Foods Task Force
Every school has salad bars
Board Policy 3511
Grimes/Kennedy Green And Grid Neutral Model Schools Policy Initiative

The Governing Board recognizes the importance of minimizing the district's energy dependence, carbon footprint, and use of natural resources and commits to providing a high quality learning environment that promotes health and productivity for its building occupants by endeavoring to produce at least as much energy as we consume (Grid Neutral) and implementing sustainable resource practices through its physical assets, operations, and curriculum for K-12 and adult education.
The MET High School

Green to Date
February of 2011 School Board allocated $5,000,000 of redevelopment funds to student developed green school projects

April 2011 Superintendent Raymond announced Project Green at an Earth Day event

Here is where I come in…
Four “simple” steps:

1. Student perform green school audits
2. Develop recommendations
3. Present to a “blue ribbon” panel
4. Award funding
1. Student perform green school audits
   • Gathered audit info from multiple sources to create an easy to follow audit process
   • Water, energy, indoor environmental quality, site sustainability, etc.

2. Developed recommendation
   • Worked with District and local professionals
     • Shop Supervisors
     • Architects, engineers, designers
3. Present to a “blue ribbon” panel
   • 5-minute presentation, 5-page paper
   • Representatives from local non-profits
   • Scoring rubric distributed to all teams

4. Award funding
   • Schools were awarded funding based on judges scores
   • Implement student recommended projects
Project Green 2012

- 15-student led teams from across SCUSD performed Green School Audits
- Worked with District and local professionals
  - Shop Supervisors
  - Architects, engineers, designers
- Generated recommendations for improvement
Project Green 2012

• Present recommendations to a “blue ribbon” panel of local experts on April 18th, 2012
  • Short written document explaining process and final recommendation
  • “Science Fair” style event
Project Green 2012

• $5 million of reallocated redevelopment funds support chosen projects
• Project executions to start during the Fall of 2012

Rosemont - $500,000
HVAC, recycling, pool pump

Erlewine - $500,000
Irrigation upgrades, outdoor classroom, shade structure

Washington - $550,000
Hand dryers, HVAC upgrades, outdoor classrooms
Theodore Judah – up to $400,000 to upgrade cafeteria

- George Washington Carver – up to $400,000 to build a rainwater catchment system
- Isador Cohen – up to $400,000 to install solar tubes
- Luther Burbank – up to $300,000 for bathroom improvements
- Alice Birney – up to $300,000 improved landscaping and daylighting

Will C. Wood – up to $300,000 to replace windows

- John Sloat – up to $200,000 upgraded irrigation and xeriscaping
- School of Engineering and Sciences – up to $200,000 upgraded irrigation/outdoor classroom
- Maple – up to $200,000 upgraded irrigation and playing field
- Sutterville – up to $200,000 for bathroom improvements

Camellia – up to $200,000 to replace windows

- McClaskey Adult Ed – up to $100,000 to improve bathrooms
The voters approved two bond measure

• Measure Q:
  • Core Academic Transformation
    • $346 Million
    • Transform high schools, technology, fire and irrigation, and resource/energy conservation

• Measure R:
  • Health & Safety
    • $68 Million
    • Improve playing fields and central kitchen
• Measure Q:
  • Project Green
    • $1 Million/ year for 5 years
  • 2013 Project Green
    • 12 schools performed green school audits
    • Presented on May 23rd
    • $1,000,000 awarded on June 12th
Project Green 2013

- C.K. McClatchy – Up to $150,000 (low-flow, dual-flush toilets, motion sensor fixtures and hand dryers)
- Crocker/Riverside Elementary – up to $120,000 (solar tubes and reflective paint)
- Fern Bacon Middle School – up to $120,000 (low-flow, dual-flush toilets, motion sensor fixtures and hand dryers)
- A.M. Winn Elementary – up to $100,000 (cool roof, skylights on multi-purpose room)
- School of Engineering and Sciences – up to $100,000 (solar tubes and benches)
- Sutterville Elementary – up to $70,000 (LED lighting)
- Washington Elementary (project at Sutter Middle School) – up to $70,000 (outdoor classroom and xeriscaping)
- Luther Burbank High School – up to $70,000 (recycling bins and equipment)
- McClaskey Adult Education Center – up to $50,000 (air conditioning units in select rooms)
- H.W. Harkness Elementary – up to $50,000 (low-flow, dual-flush toilets, motion sensor fixtures and hand dryers)
- American Legion High School – up to $50,000 (exercise equipment and fencing for outdoor sports)
- Isador Cohen Elementary – up to $50,000 (outdoor classroom and xeriscaping)
Project Green 2014

Year 2 of Measure Q bond funding - $1,000,000

Estimated timeline of events:

• Recruit advisors/student teams: Sept – Nov
  Do you know anyone interested?

• Student teams begin green school audits: Dec/Jan

• Develop recommendations: Jan – April
  Would you like to help advise/develop recommendations?

• Present recommendations: End of April (Earth Day Event)
  Would you like to be part of the “blue ribbon” panel?

• Award funding: May
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