

Learning by Doing: Making the Colleges Green and Blue

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- About the California Community Colleges:

- Student Enrollment – (2014-15)

- 2,102,318 – Headcount
- 1,108,243 – Full-Time Equivalents

- Institutions

- 72 Districts
- 113 Colleges

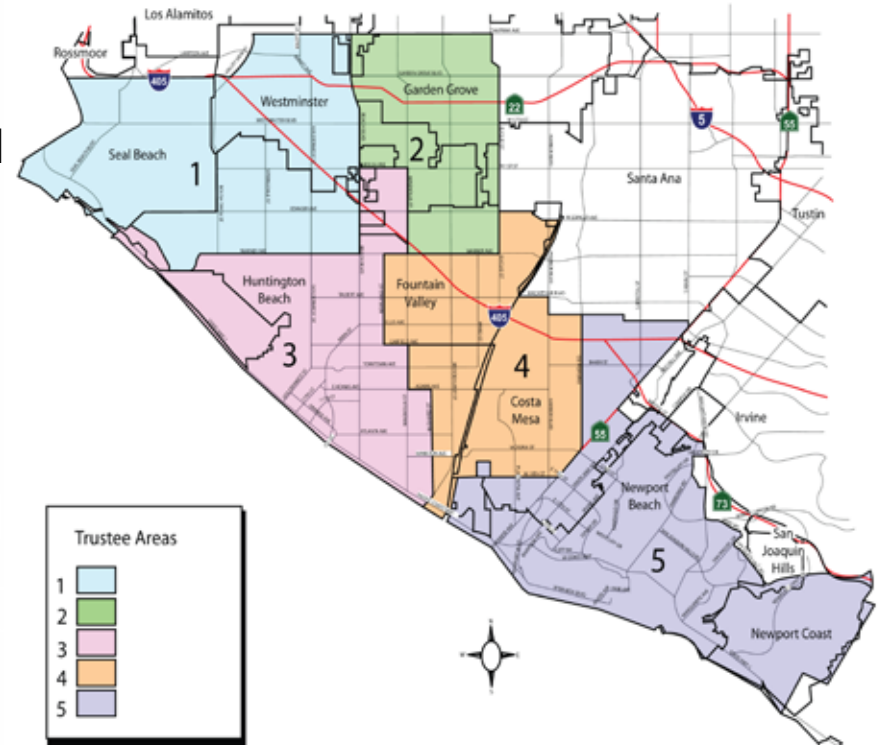
- Per Student Funding Comparison

- | | |
|---------------------------------------|----------|
| • K-12 | \$11,107 |
| • California Community Colleges (CCC) | \$7,897 |
| • California State University (CSU) | \$14,120 |
| • University of California (UC) | \$24,788 |

<http://www.ccleague.org/files/public/Publications/FF2016.pdf>

About the Coast Community College District:

- Founded in 1947
- Serving nine cities in northern coastal orange county.
- 750,000 population
- Five member elected board
- Three colleges:
 - Orange Coast
 - Golden West
 - Coastline
- 2,300 employees
- 43,000 student headcount



Developing the District Vision

– Vision 2020 - Strategic Master Plan



– District-wide Strategic Plan 2014-17



– Vision 2020 - Facilities Master Plan



– Measure M Spending Plan

What Capital Need Emerged?

- **Total program Need:** \$957.4M
 - Local Funding: \$770.7M
 - State Funding: \$186.7M
- **What did Measure M provide?**
 - \$698M or
 - Required Local Funding: 90.6%
 - Required Total Funding: 72.9%

– How did we plan to meet our development needs?

- Local
 - Measure M
 - General Fund
 - Utility Incentives/Rebates
 - Misc. local sources
- State
 - Scheduled Maintenance Block Grant
 - Statewide Education Bond
 - *(Proposition 39), 2012*

- **What is Proposition 39?**

- *California Clean Energy Jobs Act (2012)*

- \$550 Million Annually for 5-Years (2013 – 2018)

- \$381M - Local Educational Agencies (LEAs)

- ***\$47M - Community College Districts***

- \$28M - Low-Interest & No-Interest Revolving Loans

- \$3M - California Workforce Investment Board

- \$5M - California Conservation Corps (CCC) for Energy Surveys

Our Approach

1) “Keep it Simple” Projects

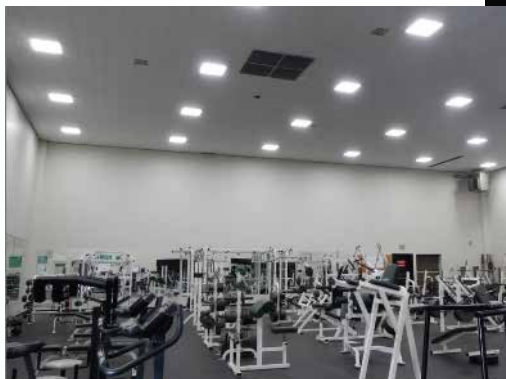
- 1) Energy Loading Order
- 2) One-year allocations
- 3) No ESCO Consultant

2) Maximize R.O.I:

- 1) Leveraging one-time funding sources (Prop 39, Scheduled maintenance, rebates/incentives, G.O. Bond)

Projects – Interior T8/LED Lighting

**The following are estimates to date.*



Total Project Cost: \$3,049,459

Utility Incentive(s): \$409,225

Total Gross Cost: \$2,640,234

kWh/Yr. Saved: 2,753,105

Annual \$ Savings: \$357,904

Simple Payback: 7.3 Years

Projects – Parking Lot LED Lighting

**The following are estimates to date.*



Total Project Cost: \$1,239,084

Utility Incentive(s): \$177,477

Total Gross Cost: \$1,061,607

kWh/Yr. Saved: 739,488

Annual \$ Savings: \$96,133

Simple Payback: 11 Years

Projects – VFD Pool Equipment

**The following are estimates to date.*



Total Project Cost: \$122,383

Utility Incentive(s): \$33,331

Total Gross Cost: \$89,052

kWh/Yr. Saved: 140,577

Annual \$ Savings: \$18,275

Simple Payback: 4.8 Years

Projects – Boilers Replacement

**The following are estimates to date.*



Total Project Cost: \$137,025

Utility Incentive(s): \$12,000

Total Gross Cost: \$125,025

Therms/Yr. Saved: 5,100

Annual \$ Savings: \$5,100

Simple Payback: 24.5

Conserving Water at the Coast District



Most Notably, the Coast District has:

- Developed and incorporated new construction standards to maximize the use of reclaimed water and incorporate low-water landscape design
- Replaced several field surfaces with artificial turf
- Installed low-flow and/or waterless plumbing fixtures and
- Significantly upgraded our aged and inefficient irrigation systems.

Coast Project Summary

• Total Value Implemented:	<u>\$5,665,736</u>
• Utility Incentives	(\$632,033)
• Prop 39 Year 1 Allocation	(\$1,079,903)
• Prop 39 Year 2 Allocation	(\$919,343)
• SM Funding	<u>(\$1,000,000)</u>

Net Cost to Coast (Measure M) \$2,034,457

Est. Annual Savings to Coast \$477,412

What's Next:

- Future Prop 39 Projects
 - Stadium & Theater lighting
 - Mechanical System Upgrades

Of Note...

Coast Community College District

Orange Coast College

Honored as 2015 Winner of

**The Excellence in Energy and Sustainability
Competition**

Presented by

The California Community Colleges Board of
Governors

*OCC is one of seven colleges recognized by the California Community Colleges Board of
Governors*

- Life beyond Prop 39...
 - “The Green Initiative Fund”
 - Local initiative incentive fund. Fund continued energy improvement projects.
 - Continue momentum created by Prop 39
 - EV Charging Stations
 - Solar PV
 - Integrated Building Controls
 - Water Conservation

Thank You

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