



Sustainability at LACCD

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Los Angeles Community College District

Fall 2007





The LACCD LEED Program

- ★ \$2.2 Billion Bond Program
- ★ Sustainable Policy – Adopted 2002
- ★ 44 New Buildings / All Major Remodels
 - At least LEED Certified
- ★ Two New Satellite Campuses
 - LEED Certified
- ★ Minimum 10% Alternate Energy
 - Solar, Wind, Geothermal, Co-Generation





Water Efficiency

- * Low Flow Irrigation – Need based
- * No Irrigation – Native Plants
- * Waterless Urinals
- * Cistern – Water Capture
- * Gray Water Systems

Bottom Line:

Cost Savings on Water and
Environmental Benefit



Pierce College's Botanic Garden contains both native and drought tolerant plants to reduce water dependency.





Energy Efficiency

- * Central Plants
 - Efficient / Sustainable
- * Performance Contracts
 - Lights, Motors, Occupancy Sensors, etc
 - 3rd Party Funded
- * Photovoltaic Installation
 - One Megawatt per college



Los Angeles Valley Colleges Maintenance and Operations Building's rooftop PVC farm.





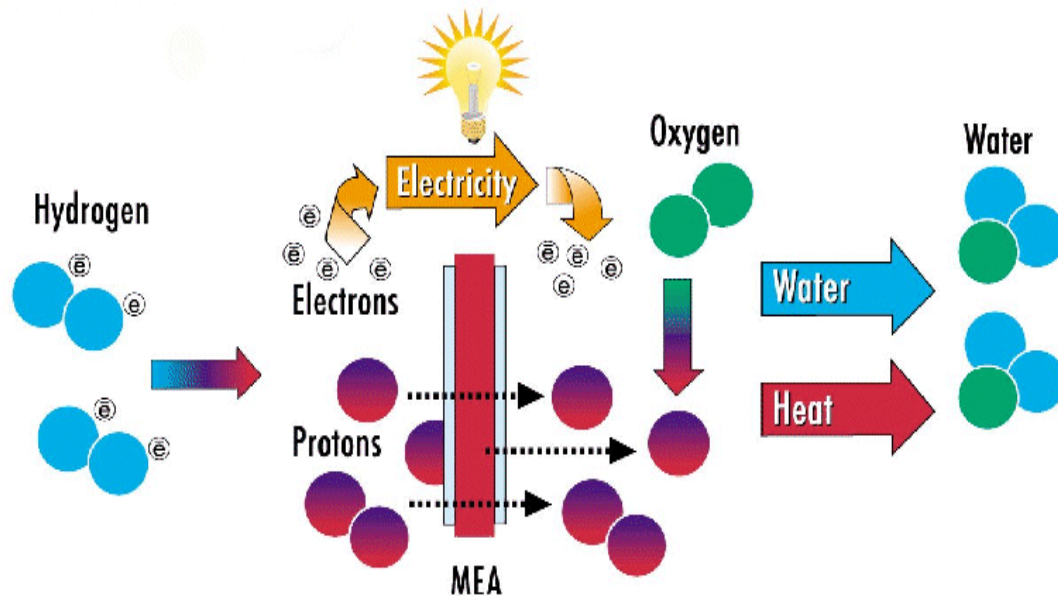
Vacuum Tube Heat-pipe Collectors





Fuel Cell Power

A fuel cell is a device that generates electricity by a chemical reaction





Energy Efficiency

- * Photovoltaic 3rd Party Arithmetic
 - Federal Energy Credit – 30%
 - Rapid Depreciation – 25 %
 - Utility Incentives – 20 %
 - * CCC/IOU Team Consultation
 - Green Tag Sale – 5% (?)
 - Bulk Procurement – 10 % (?)
 - 10 Cents on the Dollar !!!





Energy Efficiency

- ★ Power Purchase Agreement
 - Buy the electricity from the solar cells over 25 years
 - Cost per solar kw = 13 cents
 - Cost per Edison kw = 21 cents
 - Buy out with future capital, and have no energy bill

Bottom Line:

Immediate and Long Term Budget Saving and Major Environmental Benefit





Recycled / Renewable Materials

- * Centralized Furniture Procurement
 - Made from 100% Recyclable Material
 - End of Life Return
 - No Chrome
 - 15 year fully unlimited warranty
 - Design, Delivery, Installation Included
 - Below Market Prices
 - “Piggybackable” by all public entities
 - Planned \$100 million, Actual \$60 million



Conference room furniture available at LACCD's Furniture Procurement Showroom.





Recycled / Renewable Materials

- * Sustainable Carpet
 - 30 year warranty
 - 100% recycled backing
 - 40% recycled yarn content
 - 100% recyclable
 - Wide range of color / pattern choice
 - Piggybackable
 - Less than \$15 per yard





Innovative Design

Sustainable Maintenance - Coatings

- * Anti-Graffiti Sealer
 - Paint washes off
 - Helps building weathering
- * Tioxoclean
 - Spray on windows
 - Titanium Dioxide creates ozone from sunlight
 - No need to clean windows !

Bottom Line:

Cost Savings / Productivity





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