

## *The Los Angeles Community College District Innovation and Integration*

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## *LACCD Overview*

- \$2.2 Billion Voter Approved Bond Program
- 9 Colleges, 2 Satellites, 180,000 students
- Progressive Board of Trustees
- Sustainable Commitment – LEED
- Alternative Energy
- Educational Mission

## *LACCD LEED Program*

- 44 New Buildings and Major Remodels
  - LEED – NC and LEED – EB
- 2 New Sustainable Satellite Campuses
  - Adaptive Reuse
  - LEED and BREEAM @ Van De Kamp
- LEED AP on Design Team
- HVAC Commissioning

## *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
- Showroom

## *Rural Education Asset Partnership (REAP)*

- College Redistribution
- E-Surplus all useable items
- All useable items not sold go to the LA Shares – 2600 non-profits In LA area
- No useable items go to landfill
- Transport handled by donee
- Any non-profit entity can participate

## *Bulk High Volume Fly Ash Concrete Procurement*

- Cheaper
- Stronger
- Sustainable

## *Zero Landfill Policy*

- Specified in Construction Contract
- Secondary Market
  - Cardboard / Paper
  - Metal
  - Glass / Plastic

## *Zero Landfill Policy*

- Manufacturer Take Back
  - Carpet
  - Ceiling Tiles
  - Sheetrock
- Re-Use on Site
  - Wood
  - Concrete / Asphalt
- Mixed Construction and Demolition Debris to Sorting Facility

## *LACCD Energy Initiative*

- Central Plants
  - Efficient / Sustainable
- Performance Contracts
  - Lights, Motors, Occupancy Sensors, etc
  - 3<sup>rd</sup> Party Funded
- Photovoltaic Installation
  - One Megawatt per college
  - Power Purchase Agreement

## *LACCD Energy Initiative*

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

## *Employment and Training*

- E7 (Environment, Economy, Education, etc)
- Intern Program
- At Risk Program
- Apprentice Program
- Contractor Boot Camp
- E7 Studio

## *Transportation Concepts*

- Institutional Metro Student Pass (I-Pass)
- Bicycle Use
- Mass Transit Access

## *Water Conservation / Treatment*

- Low Flow Irrigation – Need based
- No Irrigation
- Waterless Urinals
- Cistern – Water Capture
- Gray Water Systems
- Storm Water Management
- Future – Living Machines

## *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 !

## *Sustainable Maintenance*

- Electric Fleet
  - All Vehicles Electric Powered
  - Recharge from solar cell installation

## *Sustainable Maintenance*

- Solid Waste / Recycling
  - Two Bin System
    - Free Removal
  - Future Concept – Arrow Bio
    - No sortation
    - On-site plant
    - Removes all recyclables
    - Generates energy

## *Questions ?*

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