

Incorporating Sustainability at Davis' WWTP

Sustainable Site Planning/Landscaping

- Capture and reduce stormwater runoff
- Maximize open space
- Reduce heat islands
 - Shading
- Use native landscaping
- Increase pervious surfaces



Energy Atmosphere

- Produce renewable energy onsite
 - Fuel cell (300kW)
 - Solar (1 MW)
- Use energy efficient equipment
- Optimize equipment sizing and hydraulics for energy efficiency
- Install alternative HVAC systems (no ozone-depleting refrigerants)

Materials and Resources

- Use recycled materials
 - Fly ash in concrete
 - Recycled concrete
- Reuse existing structures
- Divert construction waste
- Use renewable/certified products
- Minimize sitework to extent possible



Indoor Environmental Quality

- Specify low VOC paints and materials
- Increase ventilation
- Use daylighting
- Use lighting and thermal controls



Water Efficiency

- Reuse treated effluent onsite to reduce potable water use
- Install water conserving fixtures
- Landscape using xeriscaping



Wastewater Treatment

- Improve water quality through higher treatment
- Capture all solids and gases to reduce methane emissions
- Reduce chlorine use
- Potential reuse of water and biosolids

