Self-guided Visitor Tour West Village at UC DAVIS

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DES186 Environmental Graphics Winter Quarter 2010



BACKGROUND

West Village at UC Davis is an upcoming mixed-use community that tightly integrates residential and educational facilities into a singular neighborhood. For it's inhabitants, West Village is both home and school. This tight integration allows for innovation on several fronts, particularly that of sustainability. West Village aims to be a "net zero energy" community; the community will produce all of the energy it needs to consume. West Village relies on several technologies and innovations, not just a singular one, to achieve this front.

MISSION

Our goal is to provide a self-guided tour that educates visitors about the various technologies that keep West Village in a net zero energy state. Drawing inspiration from the Desert Living Center in Las Vegas, we have designed six stops that tell the story of net zero energy through sculptural monuments. While each stop does have text to explain the exhibits significance, the text act acts only in a supportive capacity. Each monument by its own nature should be enough add to the overarching narrative.

THEME

As a net zero energy community, West Village can be thought of as a closed loop system. Waste is minimized; anything that can be reused will be. Even left over food is harnessed into new energy through the use of the biodigester. The idea of a closed loop system calls forth the form of a circle, which we've used throughout our six stops. In addition to full circles we also use arches so that we constantly reinforce the idea a loop.

STOPS

- 1. Wind Power
- 2. Orientation: capture delta breezes
- 3. Solar Panels
- 4. Biodigester, fuel cells
- 5. Water Management, Bioswales
- 6. Transportation: bus line to / from campus, bike network

All elevation drawings are rendered with a 1" = 3' scale.



about wind power as well as where to



TOP



SIDE

2. Site Orientation

The West Village site is oriented to harness the delta breezes. It is also oriented to take advantage of the position of the sun. These ideas are represented by the sundial, which not only serves as a natural clock but also an object of brand identity.





TOP



3. Solar Panels

This arch shaped bench sports a solar panel on top which not only keeps users cool, but also allows our gadget heavy society to plug in their laptop or other electronic "directly" to the sun (the bench has power plugs). Users can get a tangible feel for solar power.



4. Biodigester / Fuel Cells

The Biodigester can be a hard concept to wrap one's mind around. Even more difficult is the fuel cell. These cyclindrical pylons serve as minature versions of the aftermentioned and educate visitors on just how those things work.

The cylinders are transparent and contain a sculpture of an item that can be "biodigested" inside.





The bioswales are represented by this small fountain. The bowl shape follows the circle motif.



5. Water Management





hydrogen engines and the bicycle network. Unlike traditional bus stops, the structure net zero energy goal. It is made out of an old bus and also features bike locks.

FRONT