Sutter’s Landing Park/28th St. Landfill Proposed Solar Park

March 3, 2011
Parks & Recreation Commission
History/Background

- Total acres = 172
- Landfill closed 1997
- 30 yrs. post closure maintenance ends 2027
- Post Closure Maintenance: gas well monitoring, ground water monitoring, summer maint. to address settlement
Sutter’s Landing Park

- All 172 acres are closed 28th St. Landfill
- 2003 Park Master Plan; amended 2006 to include potential for regional destination attractions
- Current park uses: Dog Park, river access, trail, indoor skate park
- 2011: Sports courts, improved parking & signage
- Future: bike facilities, sports fields; potential expansion; solar; interpretive facilities; habitat restoration along River bank
Solar Park at Sacramento’s Closed 28th St. Landfill

March 3, 2011
Since its founding in 1998 the Conergy group has grown to a worldwide market leader in the field of Renewable Energy installations.

Conergy – our world is full of energy
What’s There Now?
Conergy Proposal

- Lease closed landfill area.
- Design a system that is compatible with local habitat and is as low-impact to local environment.
- Install up to 20MW AC of solar generation on closed landfill and surrounding area.
- Install rooftop solar on Skate Park Building.
- Install shade structures in various areas of west side of park.
- Install an educational viewing stand near highest point of the area.
Typical Module Installation
Types of Inverters (DC to AC)
Conergy’s U.S. Experience with Closed Landfills

- Ft. Carson, CO, 2MW Completed in 2007
Conergy’s U.S. Experience with Closed Landfills

- Falls Township, PA, 3MW Completed in 2008
Benefits of this Project

Some of the benefits of this project are that it will:

- Use land that will otherwise be dormant for another 17 to 20 years minimum.
- Be visible from Business 80 and serve as major Gateway into the City of Sacramento.
- Produce ‘green’ electricity to the grid that will power homes and businesses.
- Be an educational destination for visitors.
Renewable Attributes (estimates only)

By offsetting fossil fuels this project will help to reduce:

- 631 million lbs of CO2 (greenhouse gas)
- 462 thousand lbs of SOx (acid rain emissions)
- 1.8 million barrels of oil

Project is equivalent to:

- 4,000 acres of trees
- Not driving 626 million miles
Construction Phasing
1 - Adjacent to I-80 (1-2 MW)
2 - Southern and Eastern sections (9 MW)
3 - Western section and remaining park (10 MW)
1. How will City address impact on local wildlife living on landfill

   Conduct biological survey of landfill as part of CEQA review

2. Will Solar Park be compatible with park development?

   Yes, this is one of the project’s requirements

3. To whom will power be sold?

   This has yet to be determined

4. What is coverage area of proposed solar photovoltaic park?

   Majority of solar park will be developed on undeveloped portion of landfill, with roof mounted solar panels and shade structures on improved portion
Next Steps

- March 3, 2011  
  Parks & Rec. Comm.
- CEQA Analysis  
  March-June 2011
- City Approval  
  Summer 2011
- Power Purch. Agreemt.  
  Thru Fall 2011
- State Permits  
  Fall-Winter 2011
- Break Ground  
  Sp.-Summer 2012
- Questions?

Comments?

www.cityofsacramento.org/sutterslandingsolar