South Bay Replacement Project

CEC Workshop
12/11/06
Chula Vista, CA
About LS Power

LS Power develops, owns, and operates power plants throughout the U.S.

LS Power owns more than 8000 MW of generation (4400 MW in California)

LS Power leases and operates the existing South Bay Power Plant
The South Bay Replacement Project

• Replaces the existing South Bay Power Plant

• Modern natural gas combined-cycle facility

• 620 MW generation capacity

• Advanced emissions controls

• High efficiency (6,993 Btu/kWh HHV)

• Air cooled

• Compact design on 13 acres

• Retirement and demolition of the existing plant
Project Benefits

• Frees up 115 acres for redevelopment under the CVBMP
• Cuts air emissions per megawatt hour by more than 50%
• Eliminates once-through cooling
• Dramatically lowers building and stack heights
• Utilizes existing infrastructure and industrial land
• Decreases potable water use by 40 percent
• Generates local taxes, franchise fees and rent
• Creates construction and permanent operations jobs
• Provides a clean, reliable, local source of energy
• Maintains a key option for meeting the region’s energy needs
Existing Plant
New Plant
Project Location

Existing site ~110 acres
Existing Switchyard
LNG site ~ 33 acres
Project Location

Existing site ~110 ac
Existing Switchyard
LNG site ~ 33 ac
SDG&E Easement 300’
Project Location

Existing Site ~ 110 ac
Existing Switchyard
LNG site ~ 33 ac
SDG&E Easement 300’
Bayfront Buffer 100’
Project Location

Existing Site ~110 ac
Existing Switchyard
LNG site ~ 33 ac
SDG&E Easement 300’
Bayfront Buffer 100’
New Switchyard ~7 ac
**Project Location**

Existing Site ~110 ac  
Existing Switchyard  
LNG site ~ 33 ac  
SDG&E Easement 300’  
Bayfront Buffer 100’  
New Switchyard ~7ac  
SPRP Site ~13 ac
Chula Vista Bayfront Master Plan

Note: This plan is conceptual and is subject to change.
Schedule

2006
File Application with Energy Commission

2006 - 2007
Energy Commission Review and Public Hearings

2008 - 2010
Construction

2010 - 2012
Demolition of Existing Plant

2010
Existing Plant Out of Service
The South Bay Replacement Project

- Achieves goals set by the Port and the City of Chula Vista
- Generates jobs, taxes and environmental improvement
- Provides the region with a clean, safe, reliable source of energy
ELECTRONIC PROOF OF SERVICE LIST  
Revised 10/20/06  

SOUTH BAY REPLACEMENT PROJECT  
APPLICATION FOR CERTIFICATION,  
DOCKET NO. 06-AFC-3  

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I declare that I transmitted the foregoing document via e-mail, or as indicated by first class postal mail, to the above named on the date indicated thereby. I declare under penalty of perjury that the foregoing is true and correct.

Sarah Madams  
CH2M HILL  

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