



**DOCKET**

**06-AFC-3**

DATE Dec 11 2006

RECD. Dec 20 2006

## South Bay Replacement Project

CEC Workshop  
12/11/06  
Chula Vista, CA

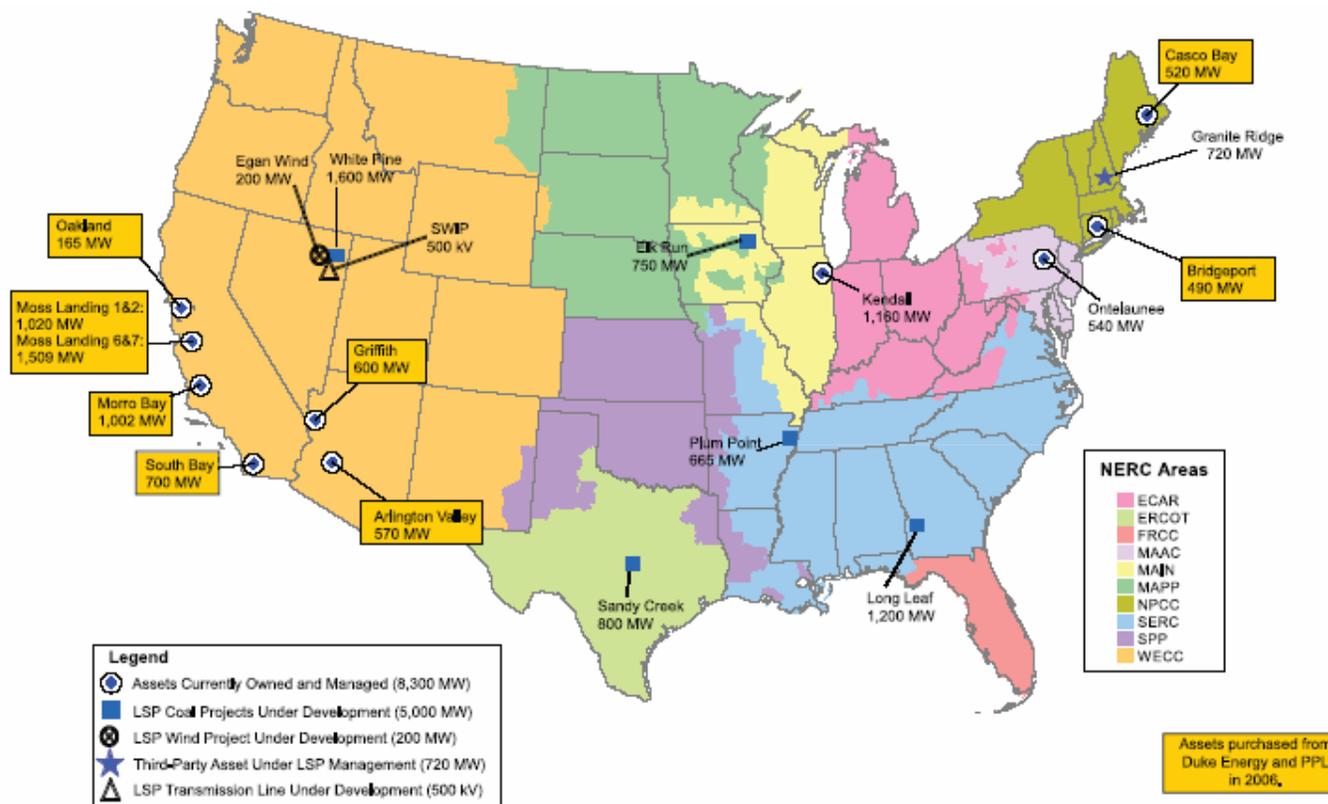


# About LS Power

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)

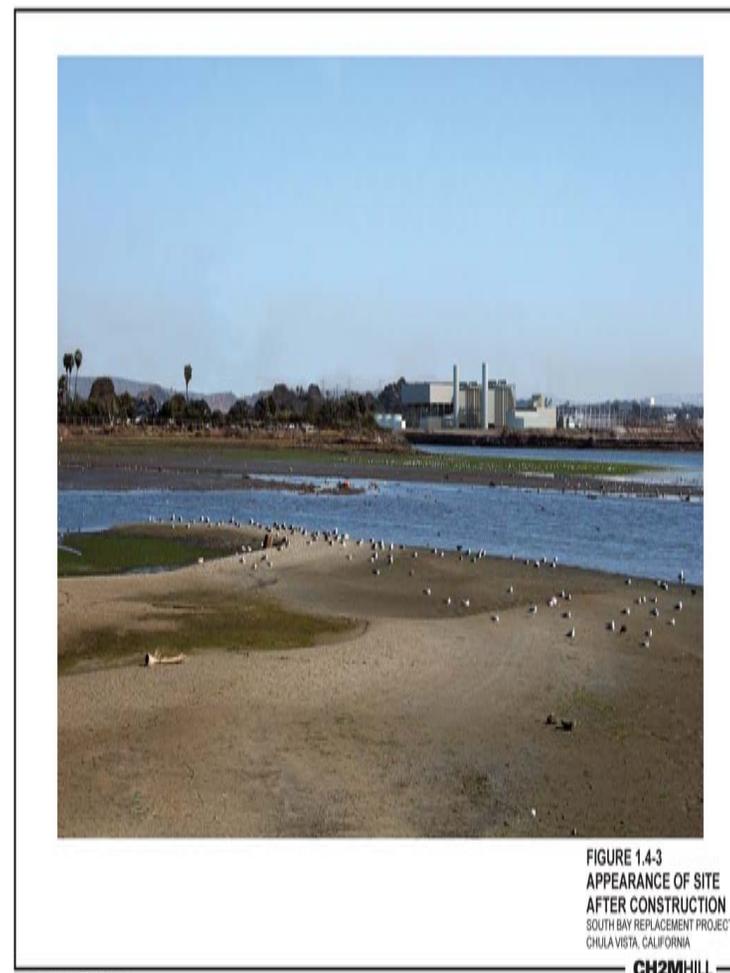
LS Power leases and operates the existing South Bay Power Plant





# 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



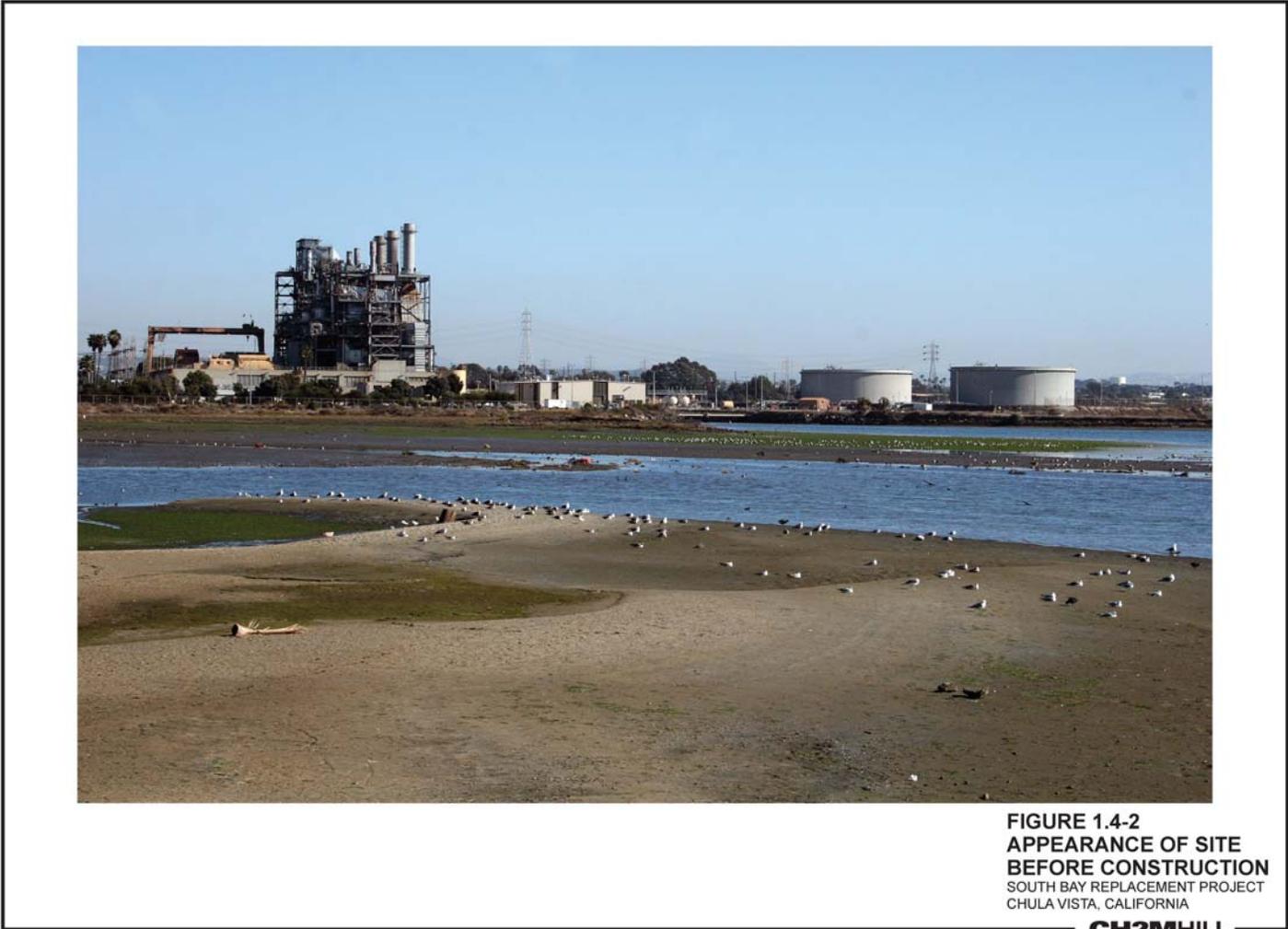


# Project Benefits

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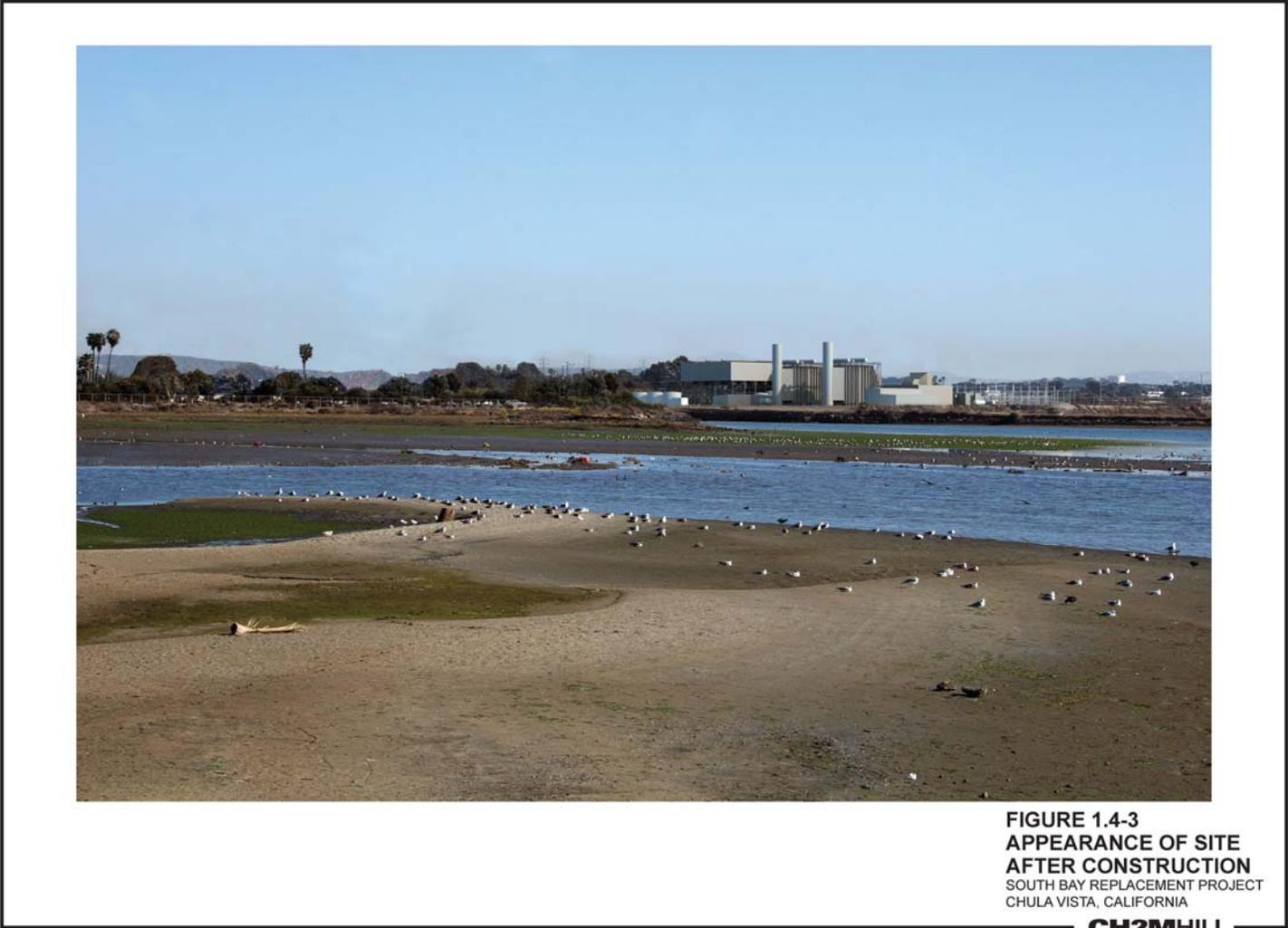
- Frees up 115 acres for redevelopment under the CVBMP
- Cuts air emissions per megawatt hour by more than 50%
- Eliminates once-through cooling
- Dramatically lowers building and stack heights
- Utilizes existing infrastructure and industrial land
- Decreases potable water use by 40 percent
- Generates 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



EY062006001SAC figure\_1.4-2.ai 06/26/06 tlaus

# New Plant



**FIGURE 1.4-3**  
**APPEARANCE OF SITE**  
**AFTER CONSTRUCTION**  
SOUTH BAY REPLACEMENT PROJECT  
CHULA VISTA, CALIFORNIA

**CH2MHILL**

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# 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





# Schedule





# The South Bay Replacement Project

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- 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





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# 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.

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CH2M HILL

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