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December 19, 2007

KIMBERLY HELLWIG
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BY HAND DELIVERY AND EMAIL

Mr. Michael Monasmith
Project Manager, Siting Division
California Energy Commission
1516 Ninth Street
Sacramento, CA 95814

**Re: Carlsbad Energy Center LLC (07-AFC-6)
Applicant's Power Point Presentation from Site Visit & Informational Hearing**

Dear Mr. Monasmith:

On behalf of Carlsbad Energy Center LLC ("Applicant"), please find enclosed Applicant's PowerPoint presentation given during the California Energy Commission's Informational Hearing on Monday, December 17, 2007.

Should you have any questions regarding this submittal, please do not hesitate to contact Mr. McKinsey or me at (916) 447-0700.

Respectfully submitted,


Kimberly Hellwig
Paralegal

KJH:kjh
Enclosure
cc: See Attached Proof of Service

**BEFORE THE ENERGY RESOURCES CONSERVATION AND DEVELOPMENT COMMISSION OF THE
STATE OF CALIFORNIA**

**Application for Certification for the
CARLSBAD ENERGY CENTER PROJECT**

**Docket No. 07-AFC-6
PROOF OF SERVICE
(As of 11/6/2007)**

DECLARATION OF SERVICE

I, Kimberly J. Hellwig, declare that on December 19, 2007, I deposited in the United States mail at Sacramento, California with first-class postage thereon fully paid and addressed to those identified below *OR* transmitted via electronic mail consistent with the requirements of the California Code of Regulations, Title 20, sections 1209, 1209.5, and 1210 the following documents:

**CARLSBAD ENERGY CENTER LLC'S
POWERPOINT PRESENTATION FOR SITE VISIT & INFORMATIONAL HEARING**

CALIFORNIA ENERGY COMMISSION

Attn: Docket No. 07-AFC-6
1516 Ninth Street, MS-14
Sacramento, CA 95814-5512
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INTERESTED AGENCIES

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esaltmarsh@eob.ca.gov

INTERVENORS

None as of 12/13/07

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APPLICANT'S CONSULTANTS

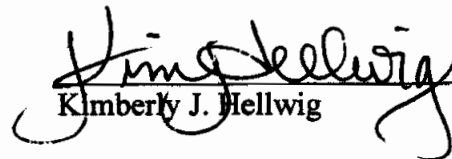
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I declare under penalty of perjury that the foregoing is true and correct.



Kimberly J. Hellwig



West

Carlsbad Energy Center

Powering California with NRG





Company Overview

Powering California with Innovation

- NRG Energy is a global power producer with a diverse portfolio of facilities rated at approximately 25,000 megawatts worldwide

NRG West

- Regional headquarters located in Carlsbad, California
- Own and operate 2,200 megawatts of power plants in CA & NV
- Facilities located in Carlsbad, San Diego, El Segundo, and Long Beach
- NRG's facilities and its employees are recognized for stewardship of the environment, especially related to Carlsbad's Agua Hedionda Lagoon

Community Investment

Via Lagoon Stewardship



• Periodic Maintenance / Lagoon Dredging

• Provided Financial Support for the
Discovery Center

• Beach Sand Replenishment

• Trail Maintenance Funds



Community Investment

Hubbs-Sea World Hatchery

- Fundraising
- Support of Marine Research and Repopulation



Carlsbad Aqua Farms

- Supporter of Aquaculture

Environmental Stewardship Through **ec**o**nrg**



- 2001 ★ • Environmental Responsibility Award in 2001 & 2002
- 2002 ★ -- San Diego Industrial Environmental Association



- National Oceanic and Atmospheric Administration's Walter B. Jones Memorial Excellence in Business Leadership Award for combating the invasive marine algae *caulerpa taxifolia* (aka "Killer Algae") found in Agua Hedionda Lagoon
- Completing its third year in the California Climate Action Registry voluntary program, NRG is recognized as a Climate Action Leader and is supportive of California's goal to reduce the State's contribution of greenhouse gas emissions



Carlsbad Energy Center

Project Overview

- Install 2 low profile, highly-efficient, air-cooled Siemens Rapid Response generators totaling 540 MW

- Retirement & decommissioning of old units 1-3 reducing 320 MW

- Schedule to be online as soon as the peak summer months of 2010

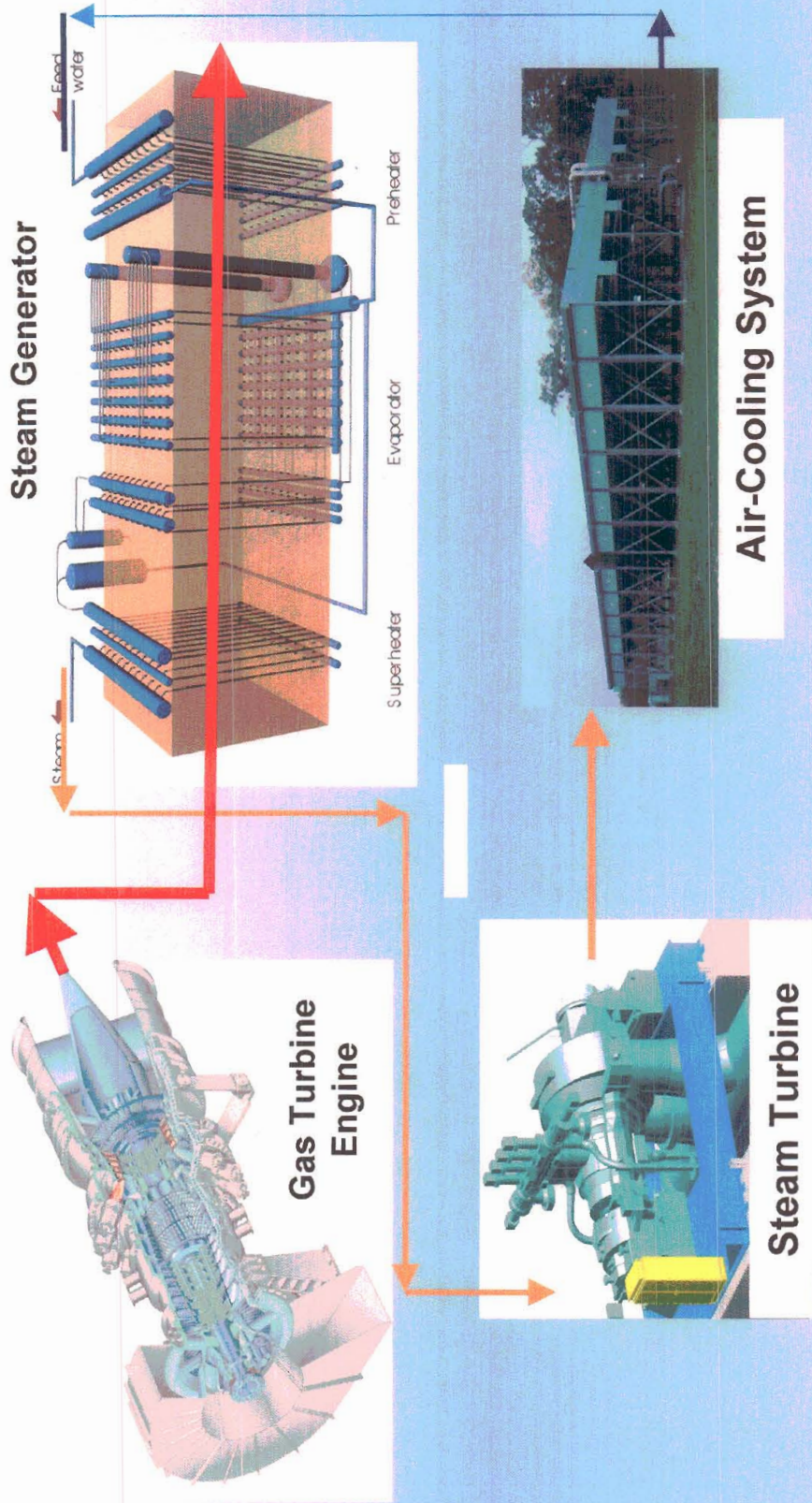
- Delivers on goals of the South Carlsbad Coastal Redevelopment Plan

- New revenues to the City of Carlsbad estimated at \$4 – 5 mil. per



Carlsbad Energy Center

Power Generation Process





Carlsbad Energy Center **Environmental Benefits through nrg**

- Reduced use of drinking/potable water for plant operations through usage of reclaimed water
- Highly efficient natural-gas fueled generating units produce significantly lower emissions and burn 30% less natural gas
- Supports California's efforts to address global warming
- New state-of-the-art technology means a smaller carbon footprint

Carlsbad Energy Center Environmental Benefits through econrg



- Replaces 225 million gallons per day of ocean water cooling system with air cooling to protect marine life

- Quick starting units -- 10 minute startup times versus several hours -- provide critical backstop for wind generation and other alternative energy sources at peak demand periods



During Summer 2006 Heat Storm, Wind Generated only at 9% of Installed Capacity

— Installed Wind Capacity

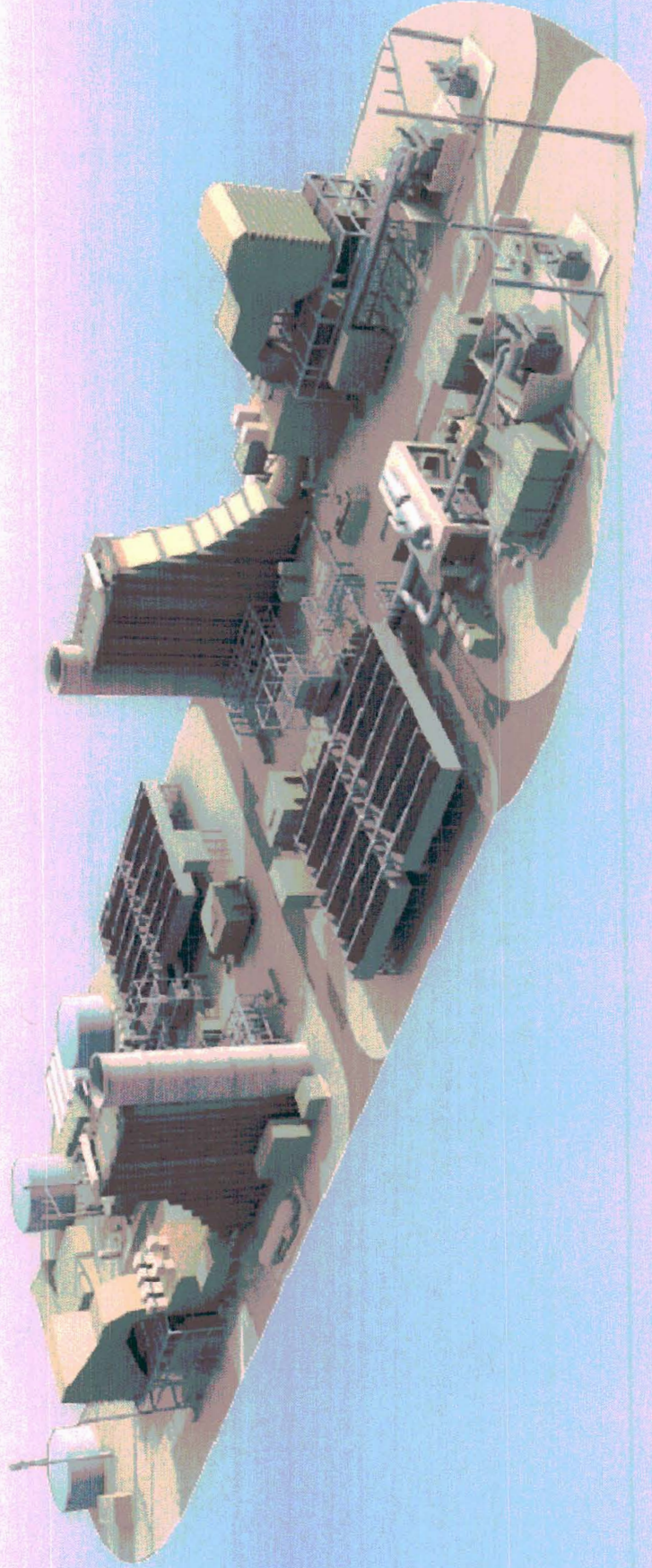
— Average Wind Generation from 12am - 6pm

CAISO Typical peak hour 4pm



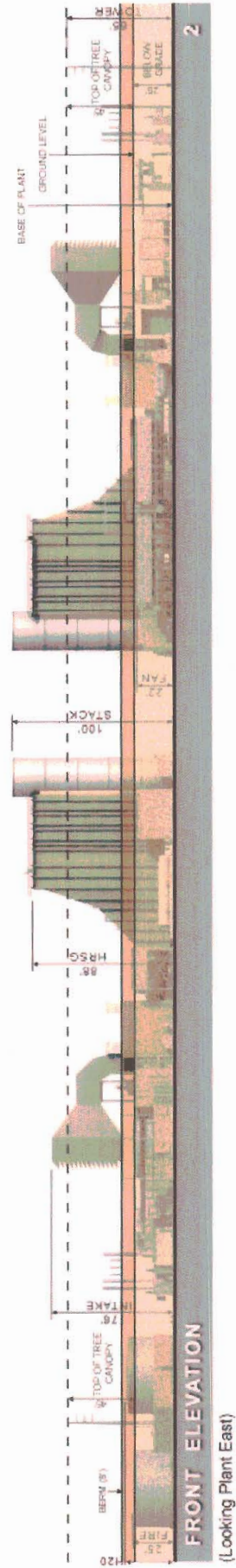
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Project Rendering



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Low Profile Cross Section



Below grade containment area

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View of Project from Southbound I-5



Carlsbad Energy Center

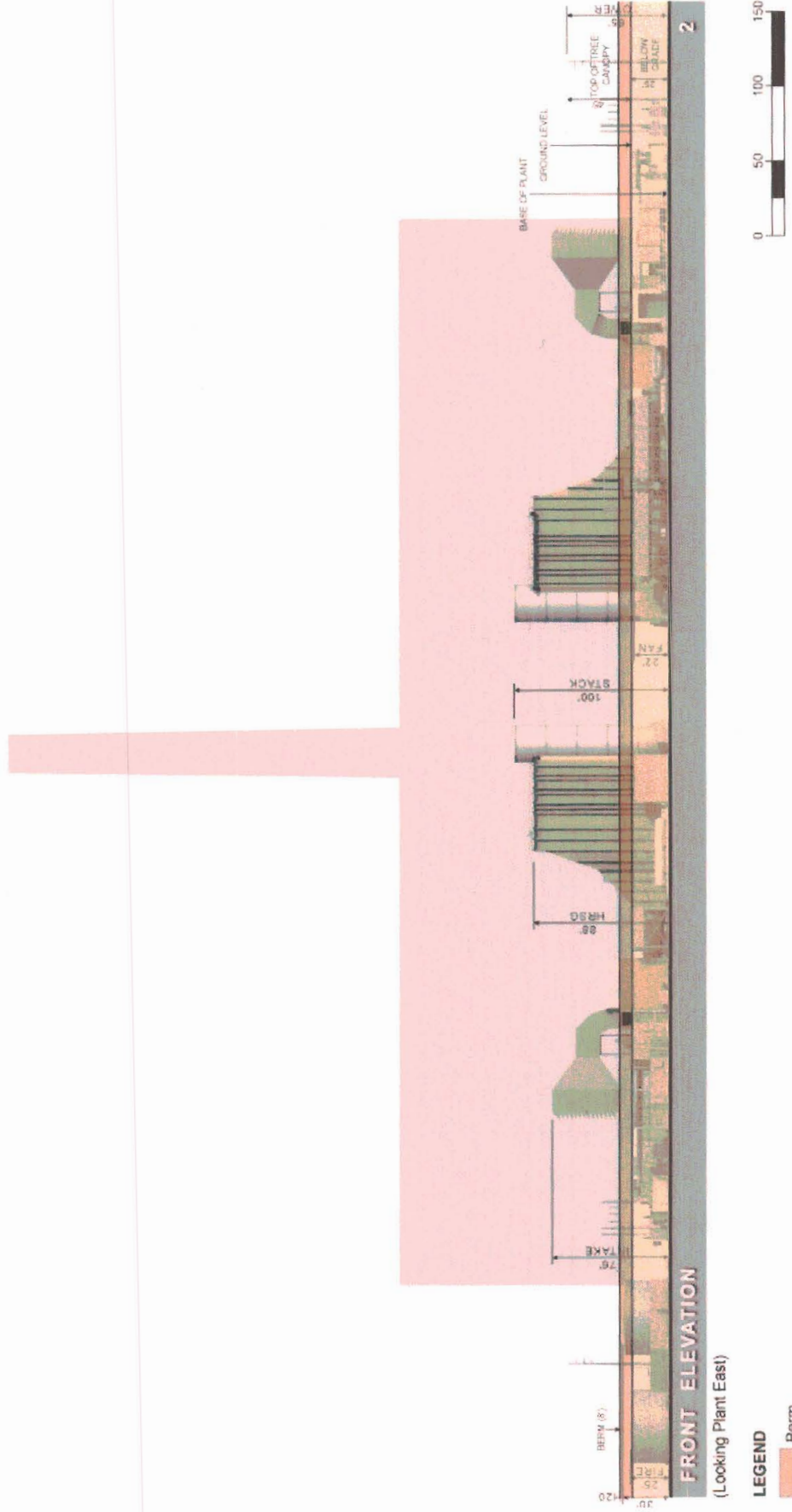
Footprint of New Site compared to

Cl



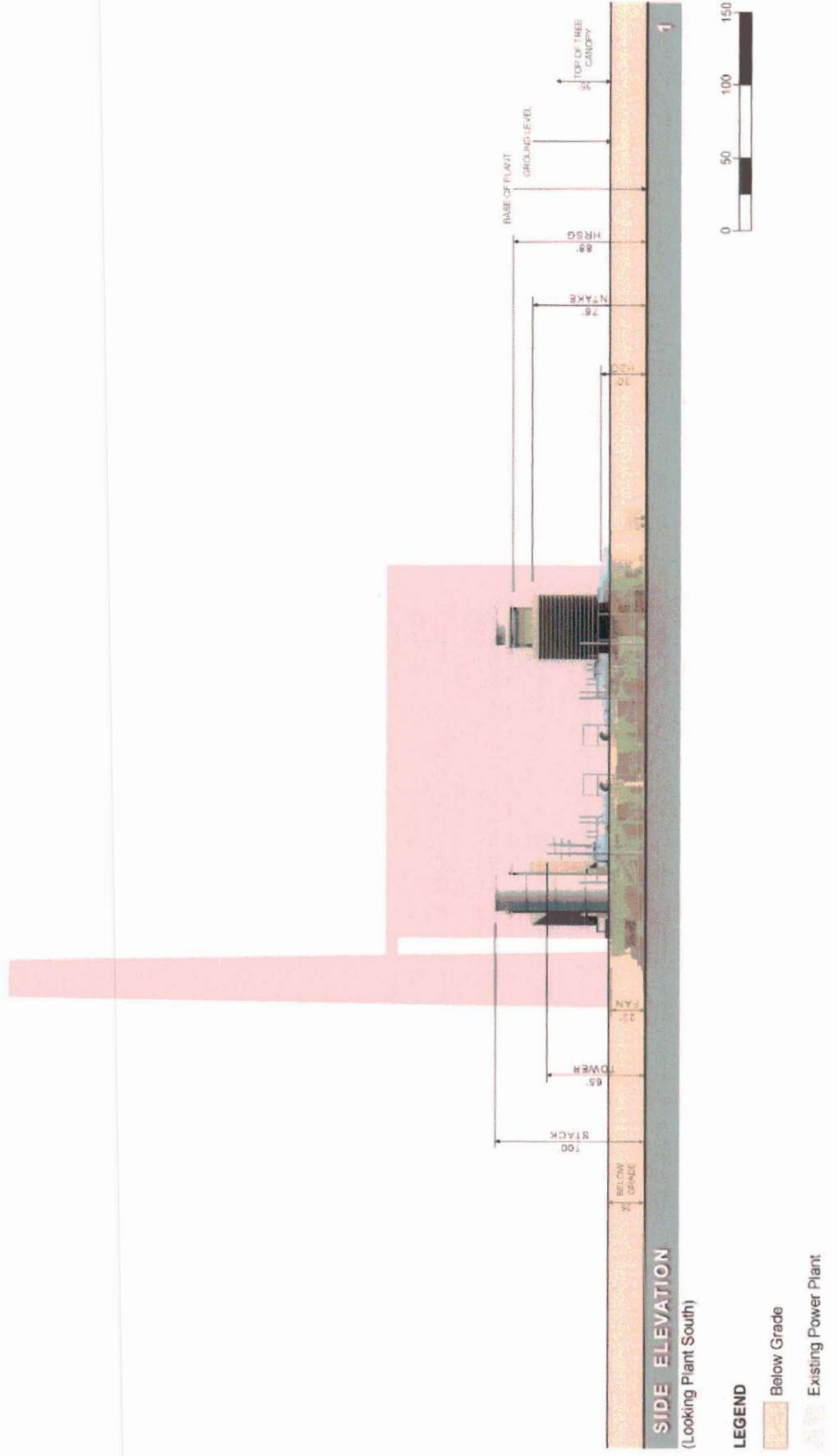
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Front Elevation View of Low Profile Cross



Carlsbad Energy Center

Side Elevation View of Low Profile Cross



Fulfilling a Real Need

San Diego Headlines

Local Plants Filling a Need

San Diego Union-Tribune

October 24, 2007

Electricity Demands Highest of Summer: Conservation Urged...

San Diego Union-Tribune

August 29, 2007

The recent wildfires showed all of us the importance of having in-basin electric generation reliability. When numerous transmission lines in many locations throughout the region were taken out of service, local plants like the Encina Power Station stepped up to fill the power void.



Carlsbad Energy Center

San Diego County's Need for Power



- CEC Integrated Energy Policy Report and CPUC advocate for preference to projects that retire aging once-through cooled units located in the electrical load center; like CECF will deliver
- CPUC finds that San Diego needs 1,005 MWs of new fossil-fueled generating resources by 2015 to meet peak demand growth
- CPUC requires that SDG&E first consider Brownfield projects like CECF before considering projects on Greenfield sites
- CPUC directs SDG&E to contract with peaking plants like CECF to provide backup power to intermittent renewable resources

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San Diego County's Need for

Power



• CECF achieves all of the above goals and needs by:

- 1) Retiring existing Units 1-3 allowing for onsite re-use of transmission & natural gas infrastructure - no new offsite transmission or gas pipelines are needed for the project;
- 2) Site is already zoned Public Utility for power generation
- 3) Permanent shutdown of Unit 1-3 once-through cooling
- 4) Coastal Commission does not object to the siting of the new units at Encina
- 5) Achieves objectives of the South Carlsbad Coastal Redevelopment Plan

CECP Moves Redevelopment Forward

South Carlsbad Coastal Redevelopment

Plan

Outline City's Priorities

- Repowering Project delivering on City's goal to phase out existing power plant for site to be redeveloped for community and commercial uses
- New plant will be concealed by terrain and situated east of railroad tracks and west of freeway
- The area was chosen by the City in Redevelopment Plan
- In November 2005 NRG began working with local stakeholders through a Community Advisory Group. The goal is to create a shared vision for phased redevelopment of existing power plant site



*Meeting the region's need for
reliable, efficient power.*

A photograph of the Carlsbad Energy Center at night. The building is illuminated from within, showing a large, modern structure with a complex roofline. The sky is dark, and the overall scene is lit with a warm, orange glow from the building's lights.

"The Carlsbad Energy Center is an important step in the transition of the current generating station. Our new peaking power plant will help meet the region's need for reliable, efficient power. We look forward to working with the California Energy Commission and community leaders in Carlsbad to implement this important energy project."

Steve Hoffmann, NRG West Regional President



Contact Information

(760) 408-9833

WWW.CARLSBADENERGYCENTER.COM

Thank You