

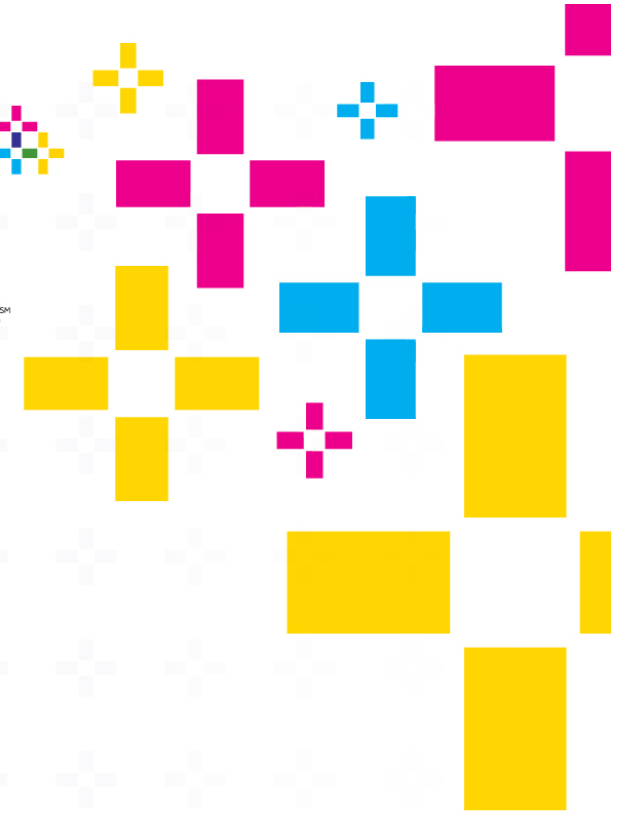
DOCKETED

Docket Number:	07-AFC-06C
Project Title:	Carlsbad Energy Center - Compliance
TN #:	202914
Document Title:	Project Owner's Slides from 8/7/2014 California Energy Commission Committee Conference
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nrg

The power to change life.™



August 7, 2014

Carlsbad Energy Center Project

Committee Conference and Environmental
Scoping Meeting

John Chillemi
President, West Region

George Piantka
Director, Environmental



NRG Investment In California



NRG is looking to the future. Ours and yours.

8,344 MW

- Natural gas: Fast Ramping & flexible

1,119 MW

- Solar: Utility scale and distributed

eVgo: \$100mm infrastructure: 'Fast' & 'level-2' charging stations

PLUS:

District heating & cooling: San Francisco & San Diego

Station A: Innovative energy technology



Encina Power Station/CECP Background





Encina Power Station/CECP Background

- Encina has served San Diego County since 1950s:
 - 965 MWs includes steam boiler Units 1-5 and black start CT
 - Located on 95 acres and adjoined by ~300 acre Aqua Hedionda Lagoon (AHL) that is also owned by NRG
 - Encina has been integral to local reliability, responding to loss of SONGS, regional blackouts and county fires
 - Host to Poseidon's future 50 MGD Carlsbad Desalination facility and City Lift Station
- Replacement of Encina initiated with 2007 Application for Certification (AFC)
- CA Energy Commission approved the Carlsbad Energy Center Project (CECP) in May of 2012



CECP PTA Offers Significant Benefits

- CECP PTA offers significant additional environmental benefits as compared to the licensed project:
 - Lower Visual Profile
 - Improved Air Quality
 - Reduced Water Usage
 - Improved Noise Profile
 - Improved Safety
- CECP PTA adds the retirement and removal of Encina, responsive to a key wish of the community
- CECP PTA will continue to be compatible with I-5 widening, City lift station project and Carlsbad Desalination project
- CECP PTA facilitates the future redevelopment of western portions of Encina into non-power generating uses



CECP 2007 AFC Rendition





CECP PTA – Significant Visual Improvement





Petition to Amend Drivers

- Retirement of SONGS in June 2013
- Scheduled retirement or modification of Once Thru Cooling (OTC) at Encina by December 31, 2017
- CPUC authorized 800 MWs in response to Encina's OTC compliance and loss of SONGS
- An amended CECP to include fast start/ramping generation is integral to the long term loss of SONGS and continued growth of renewables in the State



CECP Petition to Remove

- Filed Petition to Remove on April 29, 2014
 - Proposed removal of out-of-service Tanks 1, 2 and 4 (in addition to Tanks 5—7) on a separate and expedited schedule
 - Adding removal of these tanks to the existing project is a beneficial change that is allowable under CA Law and CEC regulation as a separate, minor change to CECP
 - Expedited removal of these tanks meets mutual goals of NRG & City, realizing immediate visual benefits and improved laydown.



CECP Petition to Amend

- Filed Petition to Amend on May 2, 2014
 - Change type of generation facility from combined cycle to simple cycle peaking
 - Incorporate above ground demolition of Encina
- Filed Authority to Construct/Permit to Operate application with San Diego APCD on May 16, 2014
- CECP PTA demonstrates the necessity of change – significant environmental benefits and generation aligned with SDG&E's needs

Site Layout: CECP PTA

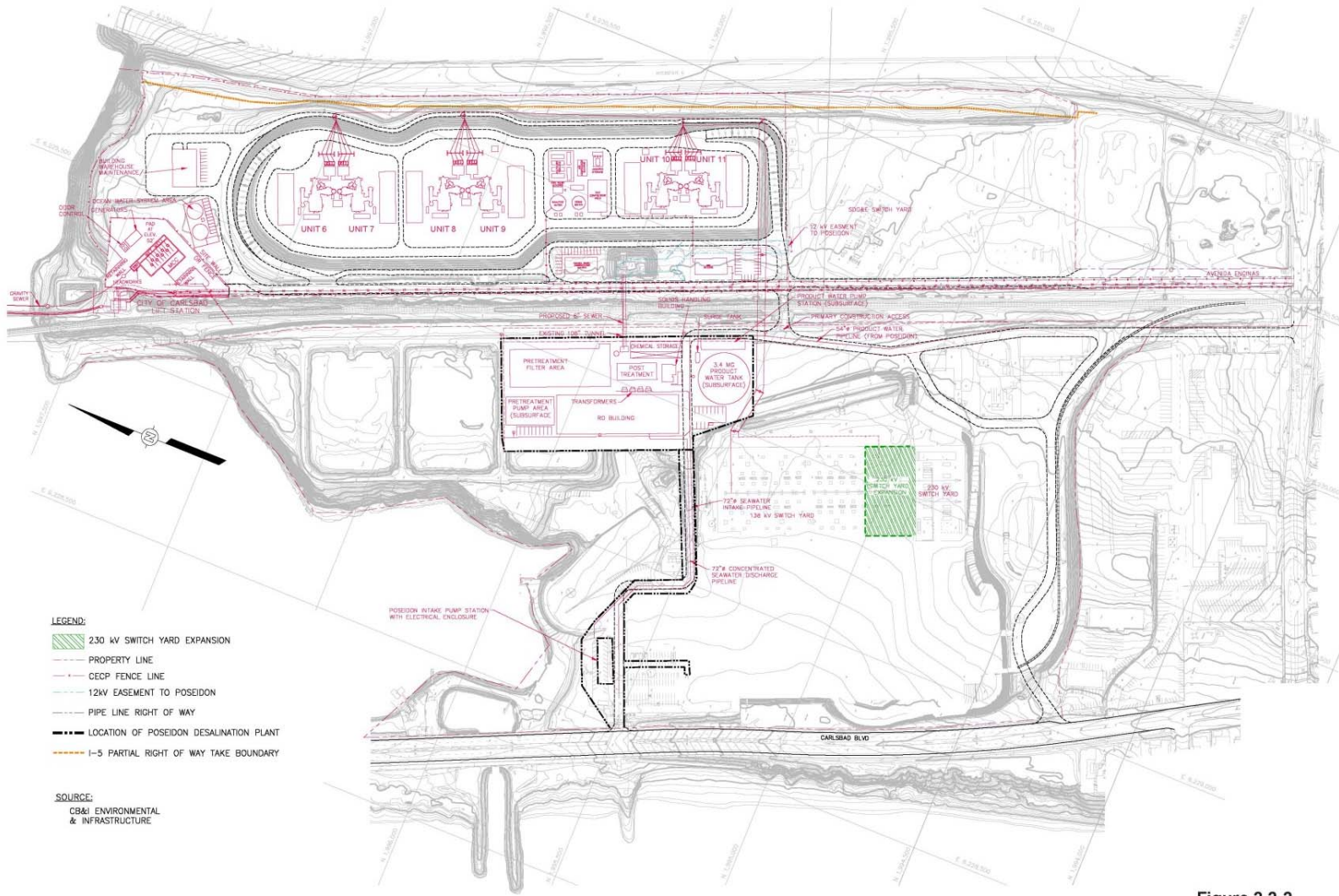


Figure 2.2-2
Depiction of Site after EPS Demolition
 Amended Carlsbad Energy Center Project
 Carlsbad, California (07-AFC-06C)
 Petition to Amend



What's Next

- NRG supports CEC Discovery Phase – Prepare Responses to Data Requests (2Q-3Q2014)
- SDAPCD completes Preliminary Determination of Compliance (3Q2014)
- CEC completes Preliminary Staff Assessment (Q42014)
- SDAPCD completes Final Determination of Compliance and CEC completes Final Staff Assessment (Q12015)
- Evidentiary Hearings (Q22015)
- Proposed Decision (Q2-Q32015)