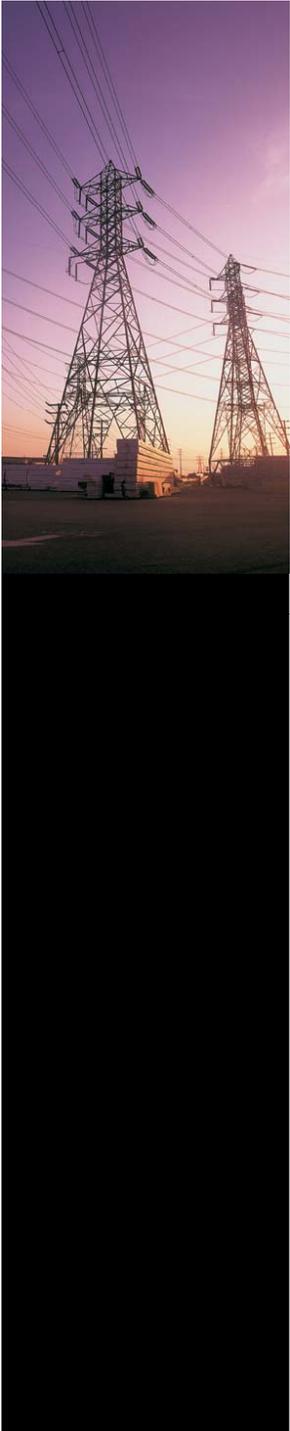


# Canyon Power Project

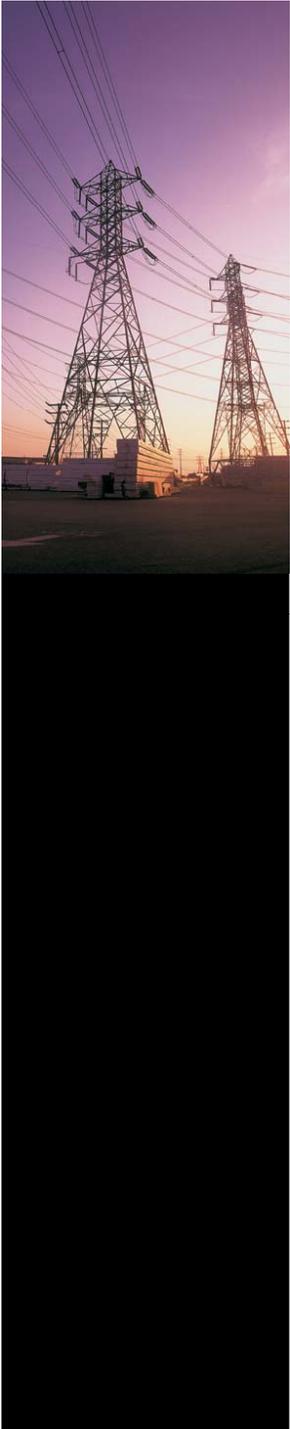
*4/15/08 CEC Public Hearing*





# Public Utilities Department

- Anaheim's population is over 350,000
- Electric Dept. serving Anaheim residents for over 100 years
- Provides power to over 110,000 meters, more than 85% being residential.
- One of 11 members of Southern California Public Power Authority (SCPPA)



# Project Description

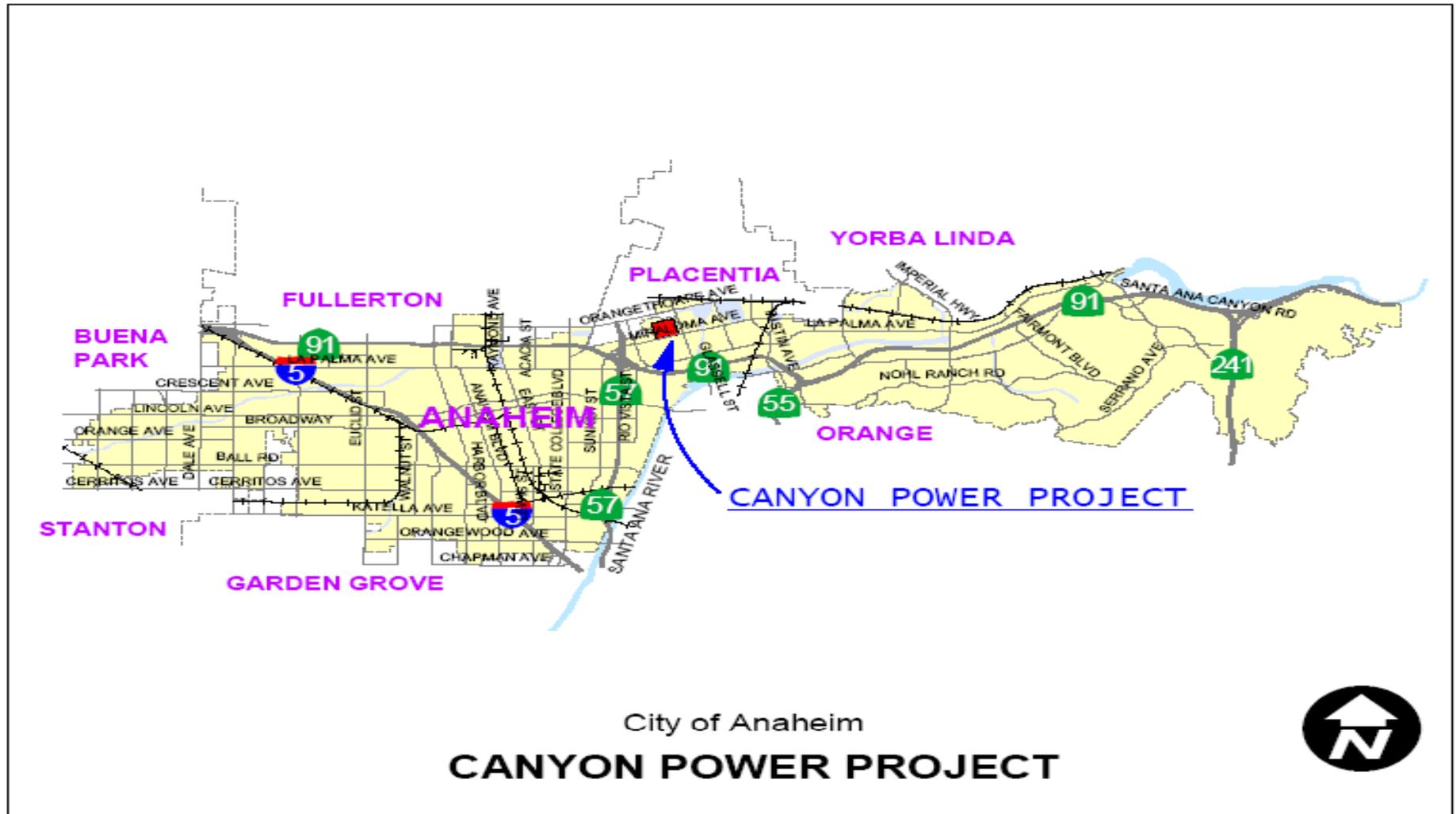
- SCPPA “Owned”
  - Anaheim will be project manager during construction
  - Anaheim will be project operator from commercial in-service date

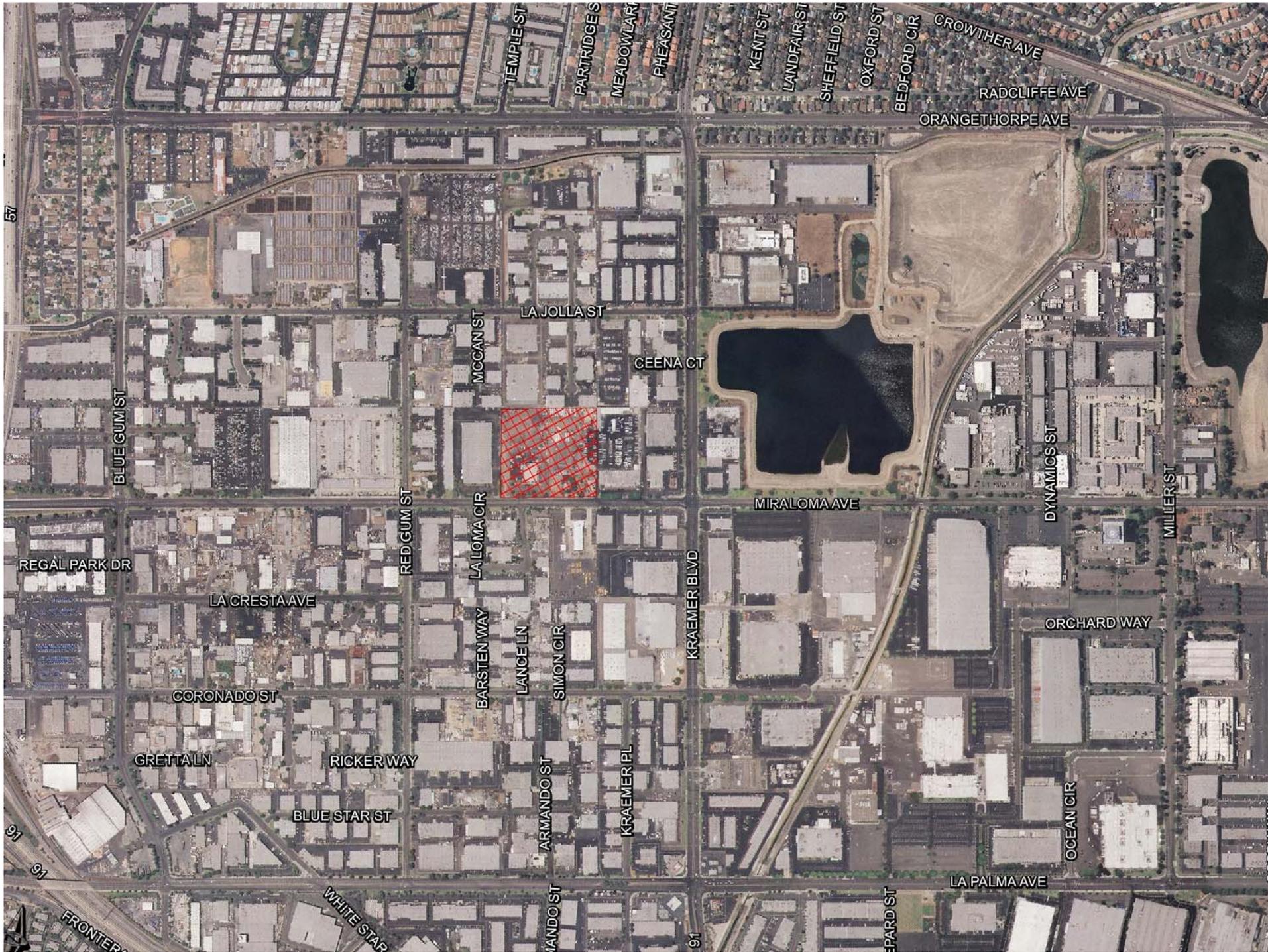


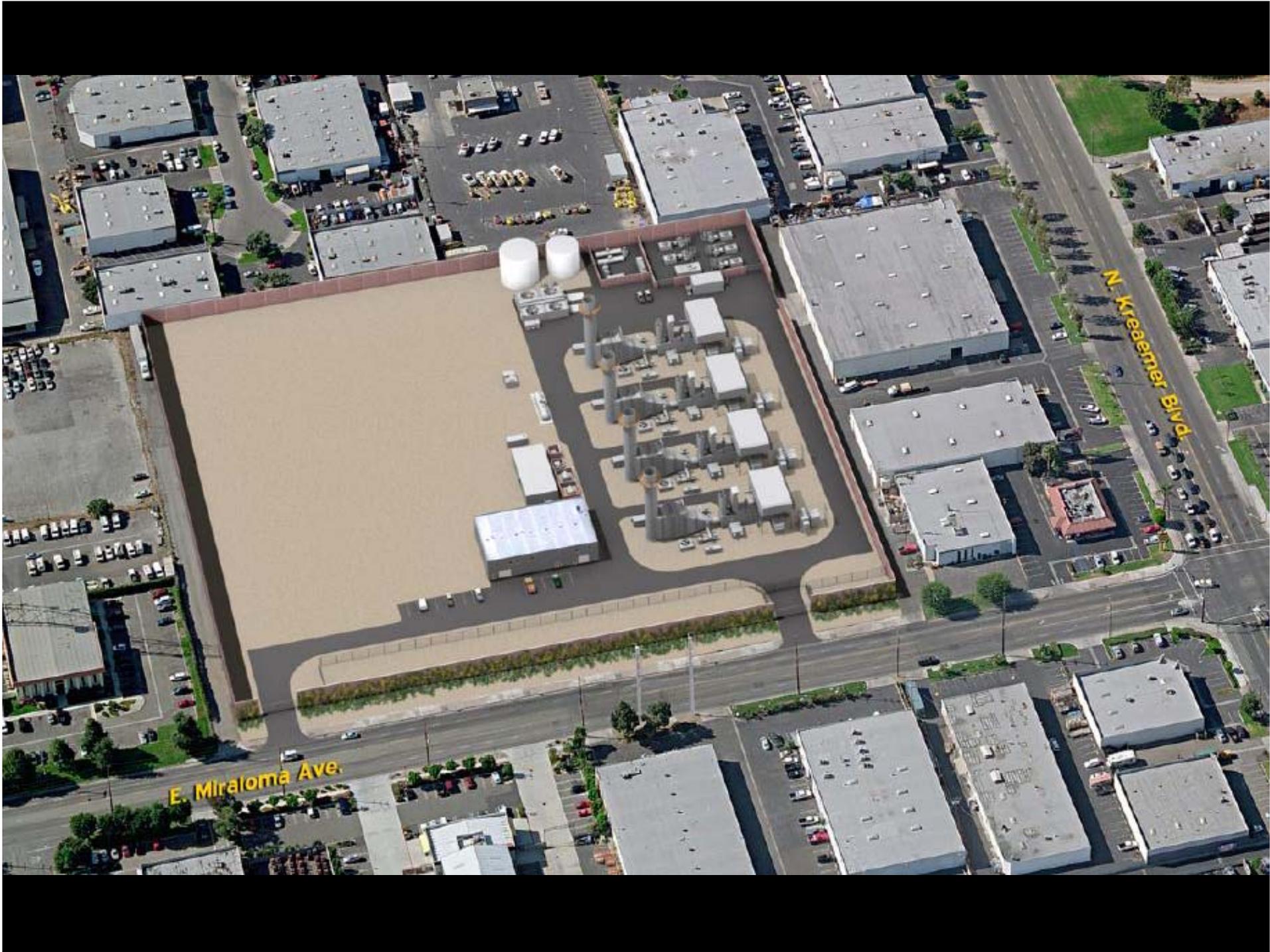
# Project Description

- **Generating Capacity is 200 MW**
  - Four LM6000 turbines, each with 50 MW capacity
  - Uses natural gas for fuel
  - Expected operations: 2,000 hours/year
- **Located in the heart of the Canyon Business Center**
- **Property site is approximately 10 acres, including easements**

# Canyon Power Project Location









# Site Location Benefits

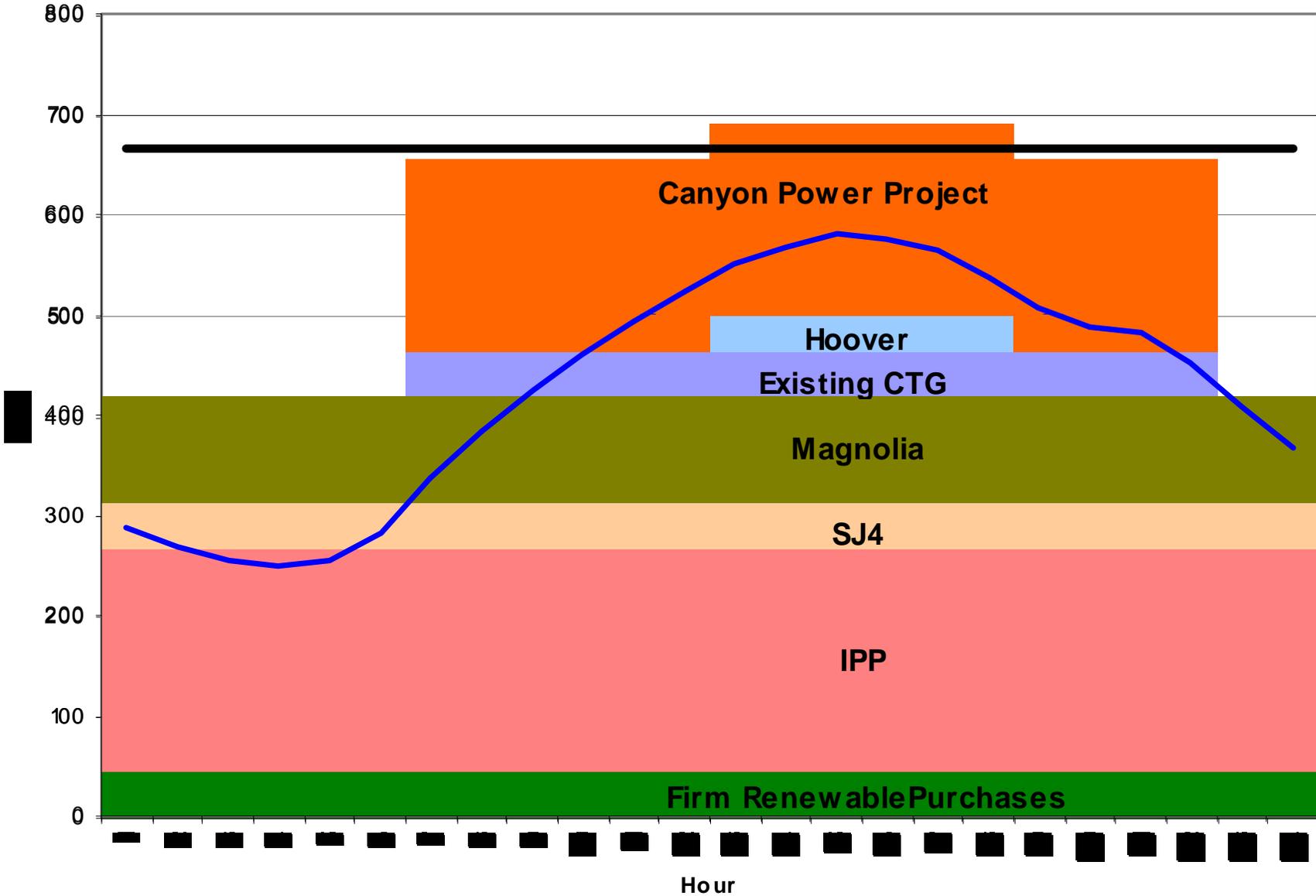
- Highest ranked of nine sites evaluated for environmental feasibility
- Located in the center of industrial zoned area
- 10 acre plot
  - Laydown area during construction
- Close to existing infrastructure
  - 69 kV transmission
  - SoCal Gas distribution



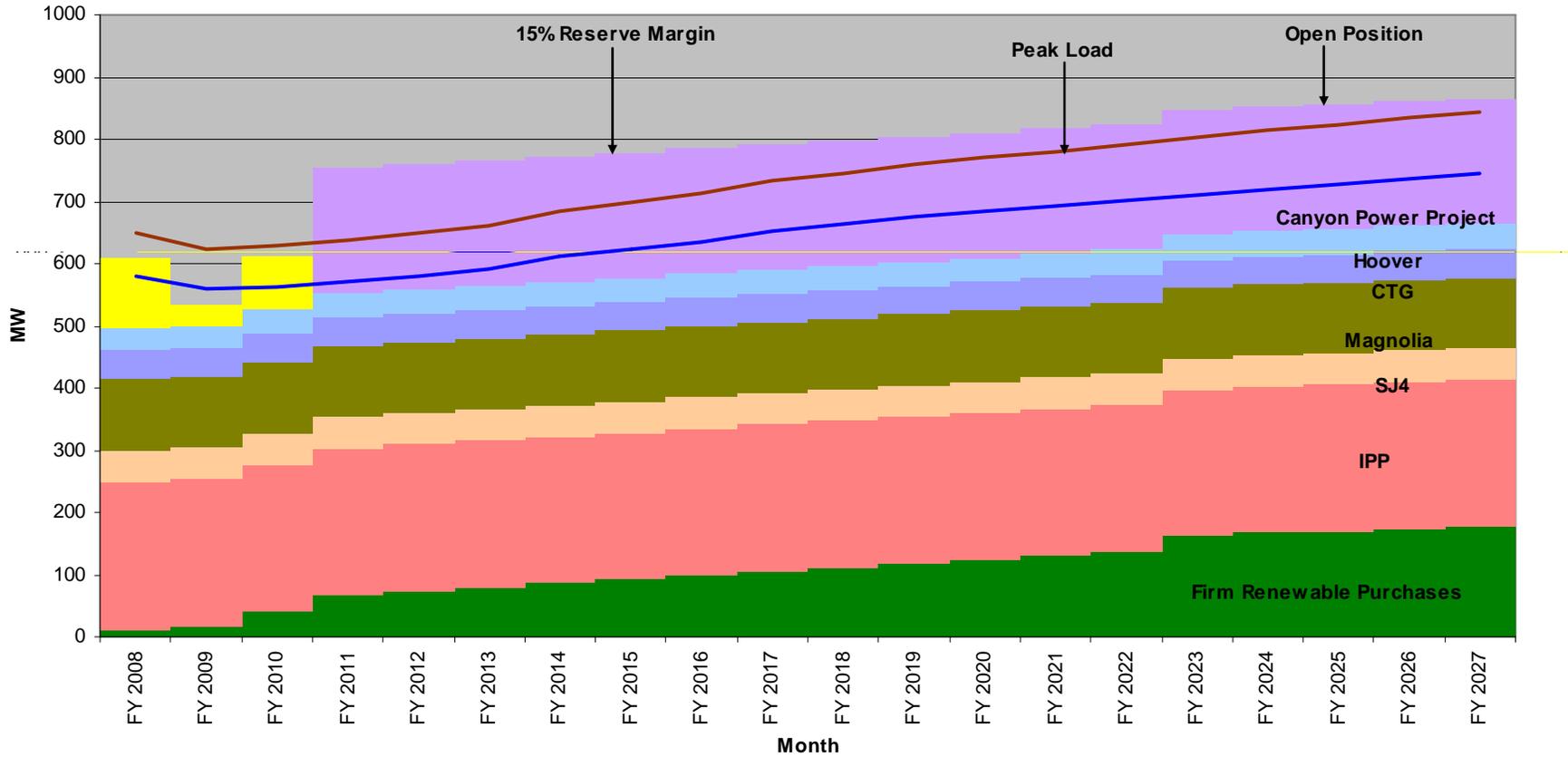
# Why the Canyon Power Project is needed

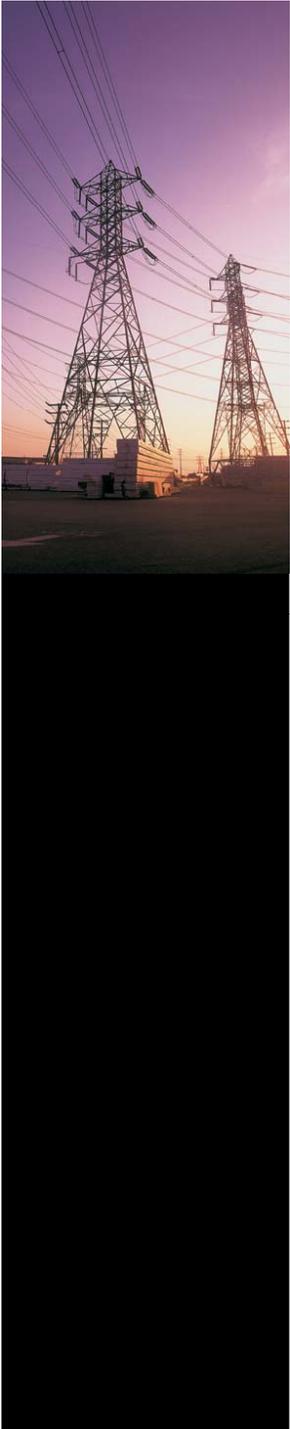
- Help meet summer peak demand for electricity
- Back up for renewable power (like wind)
- Quick response to customer changes in electricity demand
- Reduce reliance on out-of-state power
- Meet reliability requirements
- Avoid CAISO fees for non-local generation

FY10-11  
Peak Summer Day



## Yearly System Peak and Capacity Position Chart FY '07-08 to FY '26-27





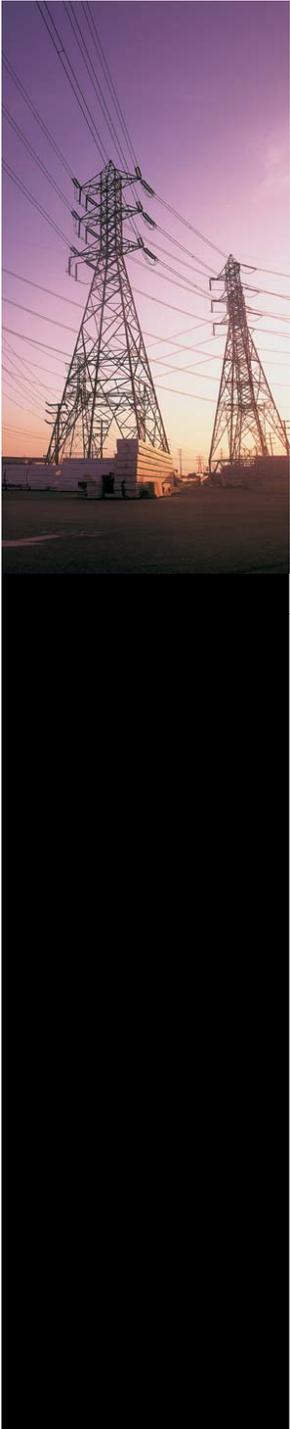
# Impacts on Air Quality

- Meets AQMD restrictions
  - Most stringent in the country
  - Emission reduction credits required prior to licensing
  - Will be permitted as one of the cleanest in the LA Basin
- Project would add less than 3% to Anaheim's GHG emissions and 0.7% to LA Basin
  - Reduction of 10% in the last 10 years due to conservation and efficiency efforts
  - Load growth has been met with renewable and gas-fired resources



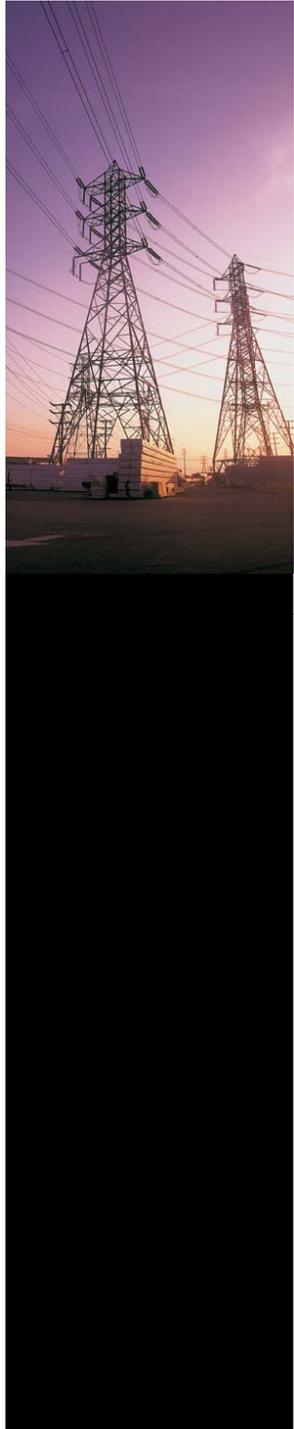
# Impacts on Noise

- Project design will meet City Code restrictions on noise
- Construction activities will be limited to normal business hours
- 20 foot wall around the perimeter of the site with landscaping
- Plant equipment includes baffles, mufflers, silencers, etc.



# Impacts on Traffic

- Project design will include traffic and parking management
- Construction activities will be limited to normal business hours
- Delivery of major equipment restricted to early morning hours
- Traffic coordination will include the appropriate City Departments



# Water Supply

- Ground water replenishment system
  - Provided by Orange County Water District
    - In partnership with the Sanitation District
    - Originates from the Fountain Valley treatment facility
    - Water quality is equivalent to potable water
  - First industrial application for the program
  - 2,100 foot pipeline required
- At the plant site, the water is demineralized for emission reduction activities.

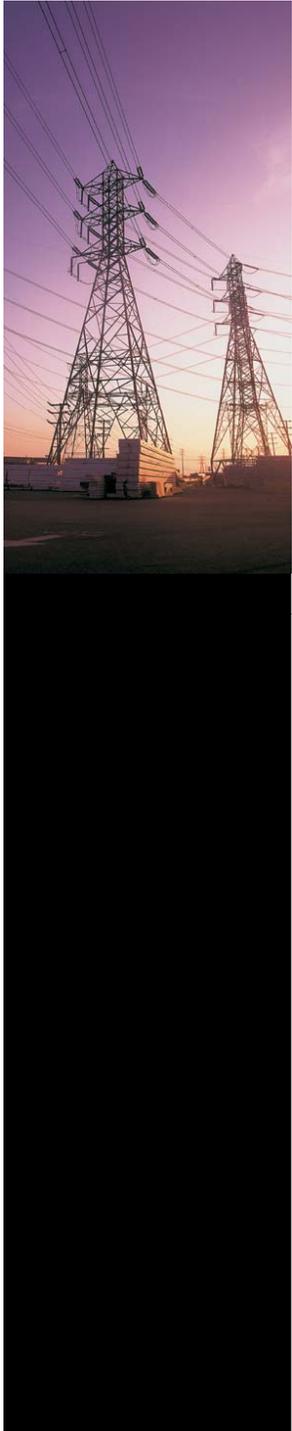


# Impacts on Aesthetics

- 20 foot wall around the perimeter
- Stack height view limited by the wall enclosure
- Landscaping approval from Planning Department
- Appropriate setbacks per zoning requirements







# “Green” Elements for the Project

- Solar paneling on all roofing areas, including switchgear covering: potential 200 kW total.
- Thermal energy storage for cooling the control building
- LEED certification for new construction approved by US Green Building Council
- All occupied structures will optimize energy and water efficiency



# Anaheim Outreach Activities

- Presentation of the Project to the four Neighborhood District Councils in October, 2007
- Presentation of the Project to the business community in the area in November, 2007
- Workshop describing the project to the City Council in November, 2007
- Various updates to the Public Utilities Board



# Anticipated Schedule

- CEC Application filed: December 20, 2007
- Data Adequacy : March 12, 2008
- EPC contractor hired: 4th Quarter 2008
- License and permitting: early spring 2009
- Construction: 2nd quarter 2009 thru spring 2010
- Testing: May/June 2010
- Commercial operation: Mid July 2010

# ANAHEIM



**PUBLIC UTILITIES**

[www.anaheim.net](http://www.anaheim.net)