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AES Redondo Beach Energy Project

California Energy Commission Informational Hearing

October 1, 2013



The AES Corporation



Safely providing affordable, sustainable energy to 23 countries on five continents

- > U.S. based company with a diverse portfolio of generation technologies
- Solutional leader in renewables, energy storage and natural gas technologies over 50% of portfolio
- Directly serve nearly 11 million customers worldwide
- Responsible developer of over 20,000 MW across >50 projects globally
- Over 30 year operating history in California



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Why Modernize the Redondo Beach Generating Station?



Environmental Goals	 Eliminates ocean water use Employs Best Available emissions Control Technology Exceeds carbon reduction targets
Infrastructure Upgrades	 Necessary for renewable energy Operate only when needed Up to 50% more efficient
Location	 Generation needs to be located close to population centers Twice as effective as inland plants Existing site and infrastructure
Community Benefits	 Reinvents the sky-line Revitalizes the harbor Repurposes land



























- Modernize a 60 year old plant
- Remove existing facility and free up nearly 75% of site for alternative use
- Create a sustainable business that supports California in achieving its clean energy and environmental goals
- Help minimize consumer electricity costs

Existing Plant Site





Existing Plant Site













Three Mitsubishi 501DA gas turbines





 \sim 122 MW power output







Condensing steam generator

^C 3 Heat Recovery Steam
Generators (HRSGs)













Existing Plant Site View from Moonstone Park, looking east









Existing Plant Site View from Herondo Street









Existing Plant Site View from PCH and Herondo, looking southwest









Existing Plant Site View from Broadway and Beryl









Existing Plant Site View from 700 Block Irena









Existing Plant Site View from Hermosa Beach









Existing Plant Site View from Hermosa Beach Pier









Air Quality



- Smaller, more efficient plant = less emissions
- Lowest particulate matter guarantees ever presented
- Lowest greenhouse gas emissions for the project objectives
- > Air quality analysis and health risk assessment must be fully vetted
 - South Coast AQMD

- California Energy Commission
- US EPA
 Federal Land Managers
- > Over \$40 million in air quality improvement funds available
- Expected to produce more energy in a year but use the same amount of fuel as the current plant







Project Economic Benefits



- Approximately \$500 million private investment
- Construction benefits:
 - \$113 million construction payroll
 - Peak construction force of 338; average 149
 - Additional 93 indirect jobs during construction
 - \$23 million for local supplies and materials
- Ongoing benefits:
 - Maintain 21 permanent high paying, highly skilled jobs
 - Approximately \$3 million annually in local expenditures
 - Continued and increased property taxes
- Lowest cost of energy for all rate payers



Thank You!