Introduction (1 of 3)

- Orange Grove Energy, L.P.
- Project purpose and need (RFO)
- Peaking plant design
- Complements renewable generation "e.g. wind, solar"
- Electricity will feed SDG&E Service Area (69 KV)
- Committed measures to minimize impacts
- Project schedule
Introduction (2 of 3)

- Peaking plants respond quickly to changes in grid dynamics due to load fluctuations and intermittency of other resources.
  - Plant can reach full power in 10 minutes
  - Able to start and stop several times a day
  - Backstops intermittent resources such as wind and solar.

- Orange Grove is configured for peaking operations

- Peakers with identical technology (same dispatch characteristics) have historically run less than 200 hours per year.
Orange Grove's expected case operations is 1,000 hours per year.

Maximum annual operations addressed in AFC and air permit application is 3,200 hours.

Orange Grove's contract with SDG&E does not provide Orange Grove the ability or opportunity to benefit from a facility expansion.
Project Benefits

- Project will support grid reliability
- $93 million total increase to local taxable property value
- $6.5 million construction payroll
- $1.1 million annual operations payroll
- $2.9 million annual non-payroll spending
- Estimated $1.1 million indirect stimulus
- 9 direct and estimated 14 indirect long-term jobs
Project Overview
(1 of 12)

ORANGE GROVE ENERGY, L.P.
Project Overview
(2 of 12)

ORANGE GROVE ENERGY, L.P.
• Major Project Components:
  - Net 96 MW Power Plant on 8.5-acre site
  - Two GE LM6000 SPRINT combustion turbine generators
  - Continuous Emissions Monitoring System (CEMS)
  - Best Available Control Technology for Emissions
  - Acoustic barriers for major equipment
  - Demineralized water treatment system (trailer-mounted)
  - Wastewater recycling via Reverse Osmosis
  - Appx. 0.3 mile transmission line interconnection
  - Appx. 2.4 mile natural gas pipeline (10-inch dia.)
  - Reclaim and fresh water trucked from FPUD
- Transmission Line Interconnection:
  - Underground transmission cable
  - Interconnection to existing SDG&E Pala substation

- Located on disturbed lands - No disturbance to natural habitat

- Horizontal directional boring beneath normally dry drainage to avoid impact to drainage
Project Overview

(5 of 12)

- **Natural Gas Pipeline:**
  - Underground pipeline (10-inch diameter)
  - Connection to existing SDG&E gas transmission line
  - Owned and operated by SDG&E between existing gas transmission line and proposed meter station
  - Follows existing roads and disturbed areas, except for approximately 0.1 mile
  - Designed to minimize habitat disturbance and impacts to SR 76 travelers
Project Overview

(6 of 12)

- Reclaim and Fresh Water:
  - 12.1 AFY expected Reclaim Water Use
  - 21.1 AFY expected Fresh Water Use
  - Trucks sized to limit peak water hauling to one truck per hour each for reclaim and fresh water.
Project Overview
(7 of 12)

ORANGE GROVE ENERGY, L.P.
### AFC Environmental Review
& Permitting (1 of 2)

<table>
<thead>
<tr>
<th>Environmental Aspects</th>
<th>Socioeconomic Aspects</th>
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<td>Land Use</td>
<td>Transmission system impacts</td>
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</tbody>
</table>

ORANGE GROVE ENERGY, L.P.
AFC Environmental Review & Permitting (2 of 2)

- Key Permits/Environmental Documents:
  - AFC/CEQA Review (CEC)
  - Grading Permit (County)
  - Habitat Loss Permit (County)
  - Authority to Construct/Permits to Operate (APCD)
  - Construction storm water NPDES permit (SWRCB)
  - Streambed Alteration Agreement (CDFG)
  - Encroachment Permits (Caltrans)
Key Environmental Features (1 of 6)

- **Air Quality:**
  - Clean-burning natural gas fuel
  - BACT to limit emissions
  - Continuous Emissions Monitoring Systems

- **Water Resources:**
  - Designed to avoid disturbance to drainages
  - No discharge of process water
  - Storm water detained onsite for 100-year storm
  - Project will not impact ground water basin
Key Environmental Features
(2 of 6)

- Biological Resources:
  - Site is a former orange grove
  - Minimum disturbance to natural habitat (9.3 acres)
  - No Threatened or Endangered species onsite
  - Gas pipeline and electric transmission line located along existing roads and disturbed areas
  - Only native species will be planted
Key Environmental Features
(4 of 6)

ORANGE GROVE ENERGY, L.P.
## Key Environmental Features

(5 of 6)

<table>
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<tr>
<th>Land Use:</th>
<th>Transportation:</th>
<th>Socioeconomics:</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Minimum site size (8.5 acres)</td>
<td>- Negligible operations traffic (up to 6 employees/shift)</td>
<td>- $93 million capital investment will contribute to tax base</td>
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<tr>
<td>- Use is consistent with current zoning</td>
<td>- Average 63 construction vehicles per day (6 months)</td>
<td>- Minimal demand on infrastructure and public services</td>
</tr>
</tbody>
</table>
Key Environmental Features (6 of 6)

- **Noise Control:**
  - Acoustic barriers around major equipment
  - Operations typically in daytime hours

- **Visual Resources:**
  - Site is hidden from view by surrounding topography
  - Few opportunities for view
  - Finishes will be selected to blend with landscape
  - Native vegetation to be used for screening
Project Benefits

- Project will support local grid reliability
- $93 million total increase to local taxable property value
- $6.5 million annual operations payroll
- $1.1 million annual non-payroll spending
- $2.9 million annual non-payroll spending
- Indirect "ripple" effect = job, spending and tax benefits
Docket Optical System - Re: Orange Grove Hearing Presentations

From: Felicia Miller  
To: Docket Optical System  
Date: 7/30/2008 1:38 PM  
Subject: Re: Orange Grove Hearing Presentations  
Attachments: Informational Hearing Presentation_Final_JT_7_25-08.pptm

Don't know why it disappeared, but here it is again.  
Thanks - Felicia

>>> Docket Optical System 7/30/2008 12:49 PM >>>
Only one document was attached. It is the one titled "OG PP masterfile."

Dockets Staff  
Siting / Dockets Unit  
916-654-5076

>>> Felicia Miller 7/30/2008 8:08 AM >>>
Please docket the 2 presentations from the Orange Grove Information Hearing yesterday.  
Please send me email confirmation that the 2 documents have been docketed.  
Thanks - Felicia