



---

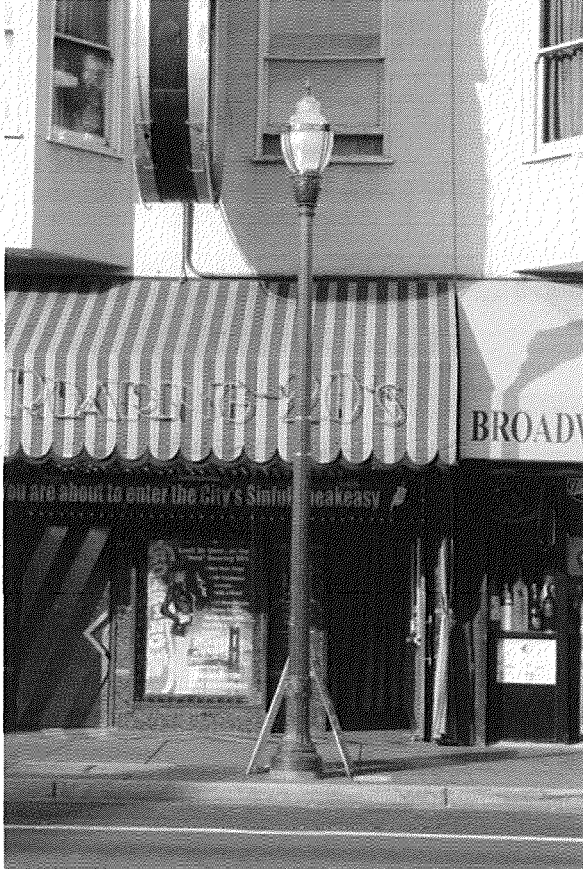
Services of the San Francisco Public Utilities Commission

# **San Francisco Street Light Hearing**

**May 21, 2012  
Barbara Hale, AGM  
Power Enterprise**

# Presentation Outline

---



1. San Francisco Street Light Ownership
2. SFPUC Street Light Levels of Service
3. SFPUC Street Light Capital Funding and Priorities
4. PG&E Street Light Responsibilities
5. Recommendations

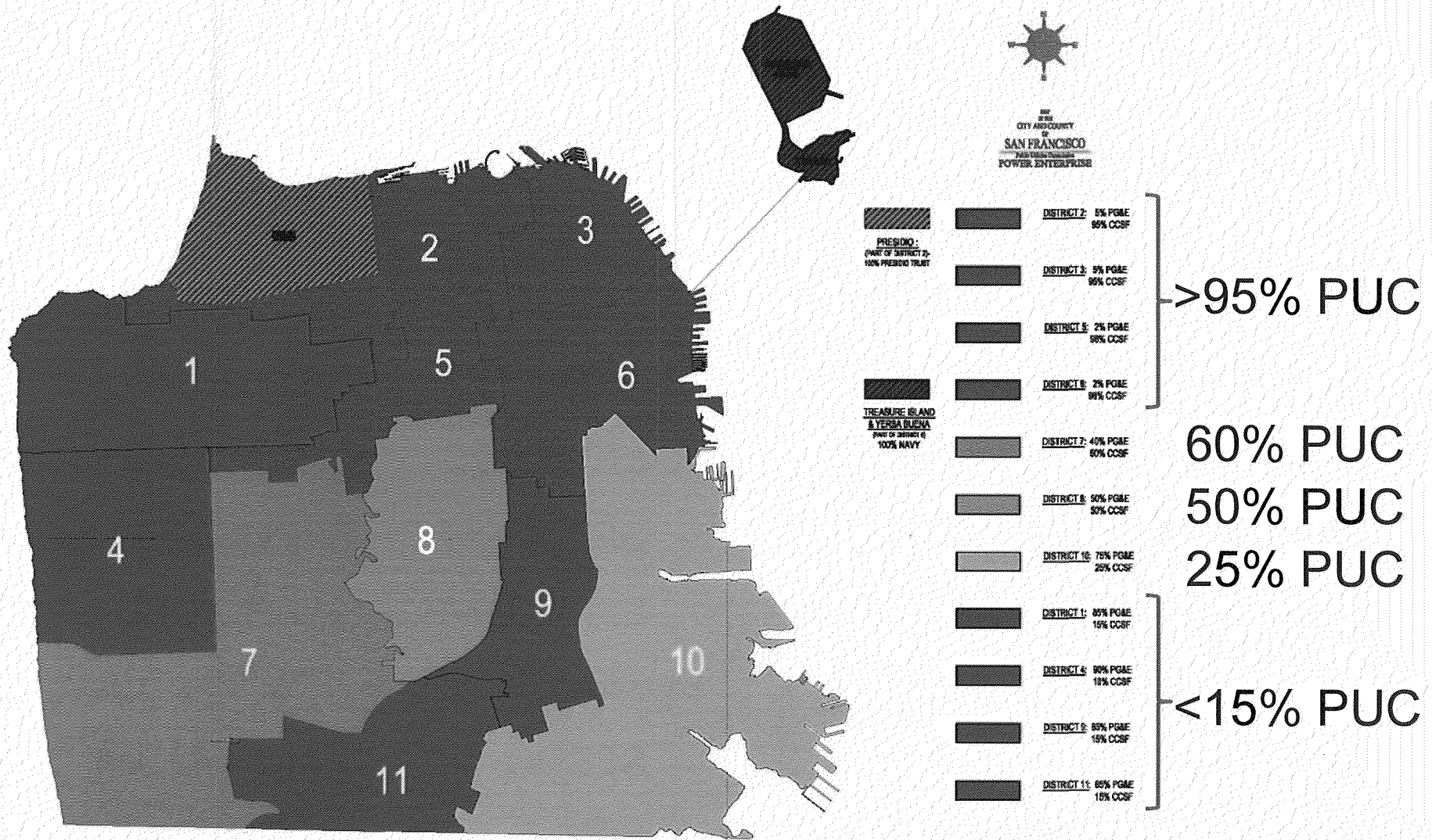


# San Francisco Street Light Ownership

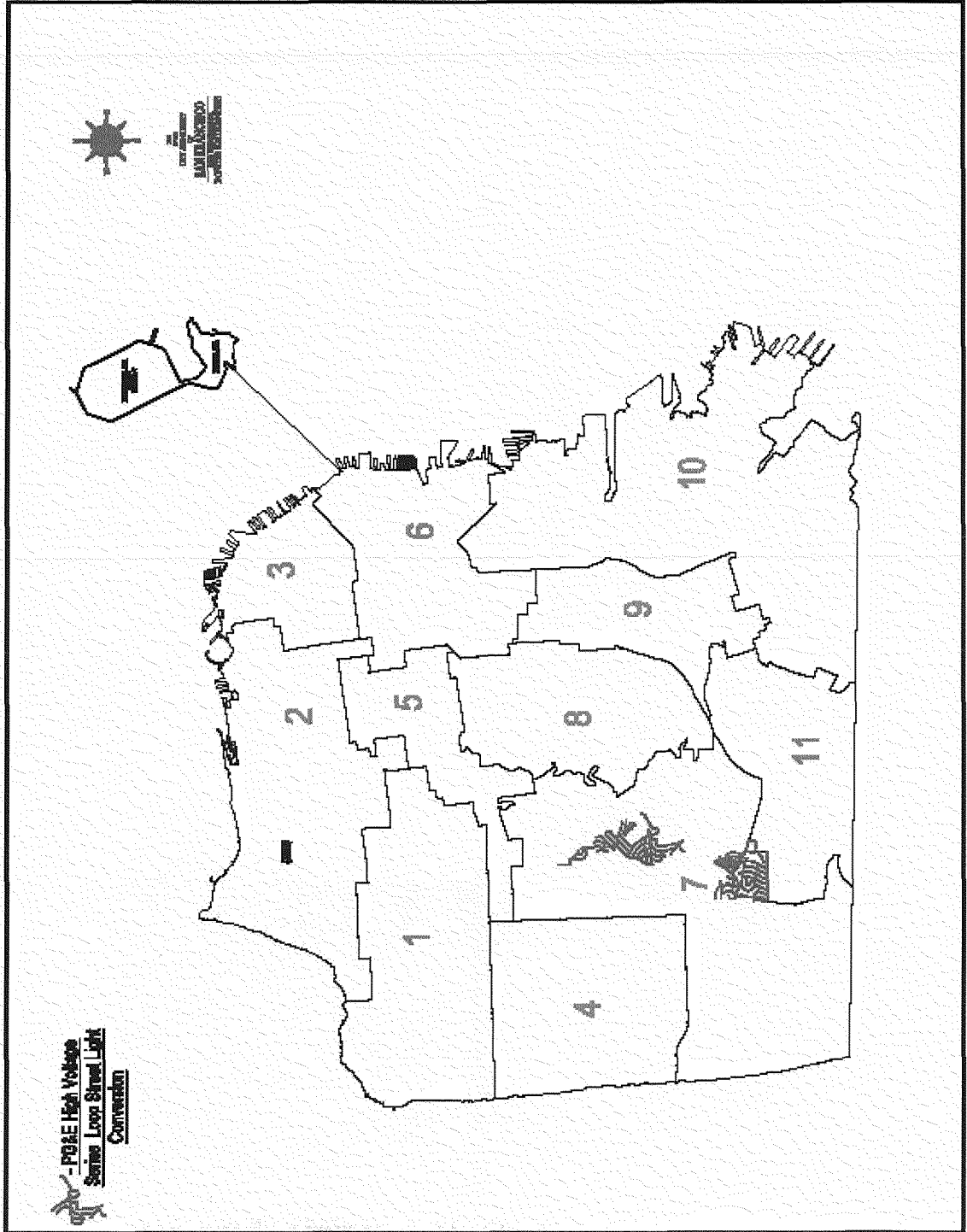
Street Light Owner	# of Lights	Power Provider	Maintained By/ Paid By
SFPUC	25,509	SFPUC	SFPUC/SFPUC
PG&E	19,019	SFPUC	PG&E/SFPUC
DPW	70	SFPUC	DPW/DPW
Caltrans	610	PG&E/SFPUC	Caltrans/SFPUC
U.S. Navy	296	SFPUC	SFPUC/SFPUC
RPD	Unknown	SFPUC	RPD/RPD
Presidio Trust	Unknown	Presidio Trust	Presidio Trust
MUNI	Unknown	SFPUC	MUNI/MUNI
Port	Unknown	SFPUC	Port/Port



# SFPUC Street Light Ownership By District



NOTE: CALTRANS OWNS SOME STREET LIGHTS ALONG



# Street Light Problem Reporting

---

1. Citizens report street light issues to 311.
2. 311 relays street light issues to SFPUC via LAGAN software. Non-business hour street light emergencies are reported immediately to the Utility Services Manager by phone.
3. SFPUC reviews internal digital database to determine ownership.
4. PG&E has voluntarily coordinated with 311 since 1/2011.





# SFPUC Levels of Service Goals

Repair Type	Repair Timeline		
	24 Hours	48 Hours	> 48 Hours
	Check/Make Safe	Return to Service	Repair/ Replace
<b>Pole</b>			
Knockdown	X		21 days
Leaning	X		180 days
Cover Missing	X	X	
Wires Exposed	X	X	
Paint Damaged			180 days
<b>Light</b>			
Burnt Out		X	
Flickering		X	
Day Burner		X	
Lens Missing			30 days



# Street Light Levels of Service

## Average Days to Close

### Street Light General Outage Complaints

SFPUC		PG&E	
Year, Quarter	Day to Close	Year, Quarter	Day to Close
2011 - Q1	30.68	2011 - Q1	44.55
2011 - Q2	57.32	2011 - Q2	32.99
2011 - Q3	9.69	2011 - Q3	32.63
2011 - Q4	5.51	2011 - Q4	27.74
Average Days to Close	<b>25.8</b>	Average Days to Close	<b>33.74</b>





# Street Light Levels of Service

---

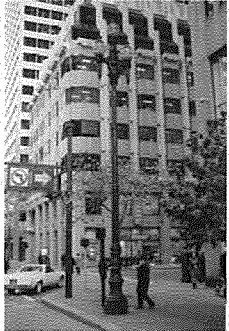
## Average Days to Close Street Light Simple Outage Complaints

SFPUC	
Year, Quarter	Day to Close
2011 - Q1	20.6
2011 - Q2	8.5
2011 - Q3	3.0
2011 - Q4	2.6
Average Days to Close	<b>8.6</b>

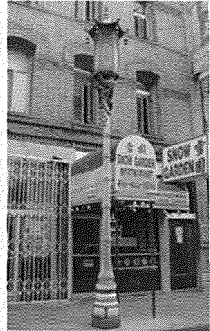


San Francisco  
Water  
Power  
Sewer

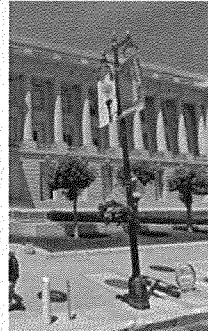
# SFPUC Street Light Maintenance Challenges



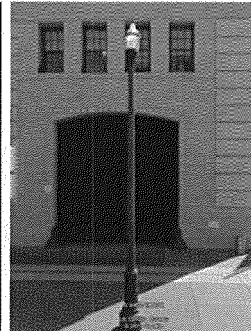
Market St. - Path of Gold



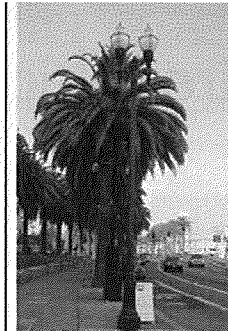
Chinatown



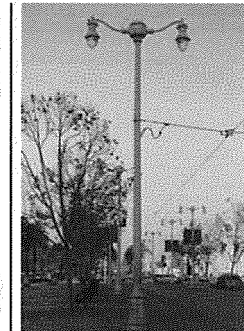
City Hall



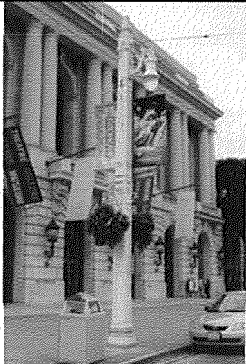
Embarcadero



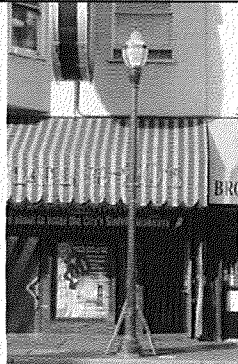
Embarcadero



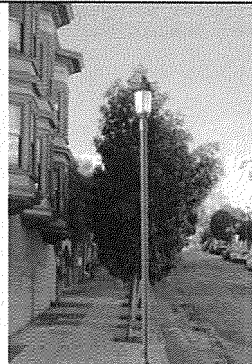
Embarcadero



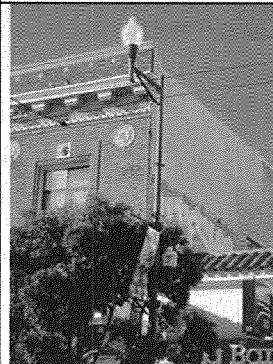
Van Ness



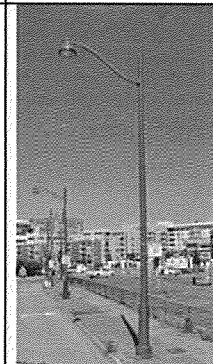
Broadway



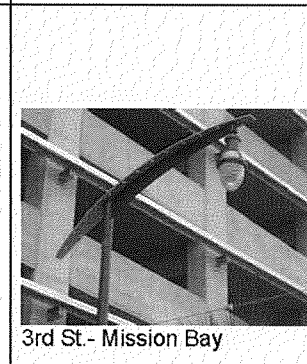
Liberty Hill Historic District



Mission St.



Mission Bay Sterner



3rd St - Mission Bay



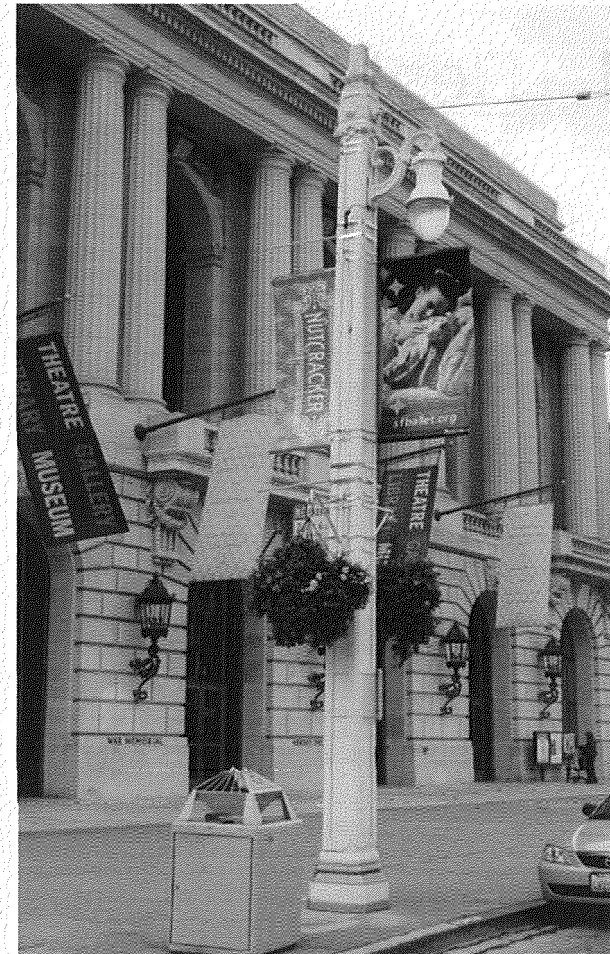
# Maintenance Challenges – Series Loops

---

1. Replacement of series loops is a priority for SFPUC capital expenditures because series loops cause many street light outages.
2. SFPUC series loops:
  - 8 remaining series loops with 339 street lights.
  - There is currently funding to convert one of the SFPUC series loops.
3. PG&E series loops:
  - Approximately 1,100 street lights on series loops.
  - PG&E to upgrade approximately 25 loops over the next 5 years estimated at \$25M.

# Street Light Capital Project Funding

1. Administrative Code, Chapter 25:  
Street lighting must be paid for  
by the sponsors of street  
improvement projects.
  - Examples: Divisadero Street, Valencia  
Street, Octavia Blvd., Mission Bay,  
Hunters Point
2. Utility Services FY 11/12 Capital  
Budget is \$8,930,000.
  - LED Street Light Conversion Project:  
\$8,000,000
  - Other Street Light Capital Projects:  
\$930,000





# Capital Project Funding Priorities

Priority 1	High crime rate in areas due to poor lighting.
Priority 2	Night time accidents due to unsafe street conditions such as sharp intersections, street curvature, or grade.
Priority 3	Cost of maintenance of street light systems are excessively high due to its age and condition.
Priority 4	High number of outages and complaints as reported by the general public.
Priority 5	Capital projects managed by other City departments generating requirements for street lighting upgrades.
Priority 6	Increased volume of vehicular and pedestrian street usage and/or non-conformance to roadway lighting IES (Illuminating Engineering Society) standards.
Priority 7	Public or Board of Supervisor requests to increase lighting levels or modify design elements to address specific area or neighborhood characteristics.

# Pedestrian Lighting Policy

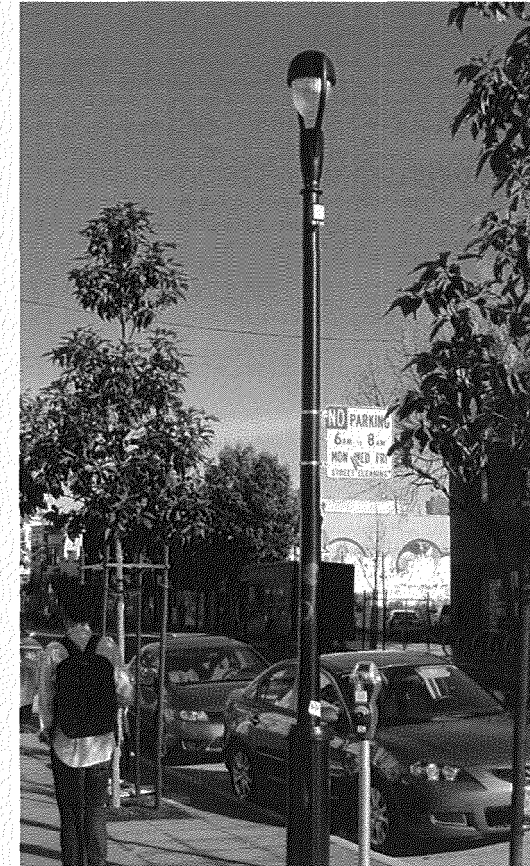
---

## Better Streets Plan

- Provides guidance on how to design pedestrian friendly streets.
- Encourages street lighting design with adequate light levels for pedestrians.

## SFPUC Pedestrian Lighting Policy

- Adopted in January 2012
- SFPUC accepts ownership responsibility for future pedestrian lights in predefined conditions.



# Street Lights Owned by PG&E

1. PG&E owns 43% of the street lights in SF.
2. SFPUC pays for the O&M of PG&E's lights.



*Ashbury Heights*



*Union Square Area*



# PG&E Street Light Rate Structure

---

1. Per California Public Utility Commission (CPUC), cities pay PG&E established rates for their street lights operations and maintenance (O&M).
2. The rates are set in PG&E's General Rate Case (GRC) application and approved by the CPUC every 3 to 4 years.
3. PG&E's rates allow PG&E to recover both O&M expenses and capital investments, where capital investments are recovered over the life of the asset.



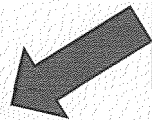


# PG&E Monthly O&M Charges

Billing Period Ending: 01/01/2012 to 01/31/2012 with New 2012 Rates based on 2011 GRC Ph 2 decision

MAINTENANCE AMOUNT DUE:

\$132,483.02



Please Remit Your Payment to:

PG&E  
BOX 997300  
SACRAMENTO CA  
95899 -7300

Old Account: ZRG NH 28101  
Account ID: 1124672909

Any questions regarding this bill can be directed to your assigned Account Representative:

Chester Livingston  
(415) 973-1370

Estimated Rate:

\* = Estimated rates. Subject to change upon CPUC approval.

CHK'D BY: RCM.  
DATE: 2/16/2012 8/11/12  
APP'D BY: [Signature]  
DATE: 2/16/12

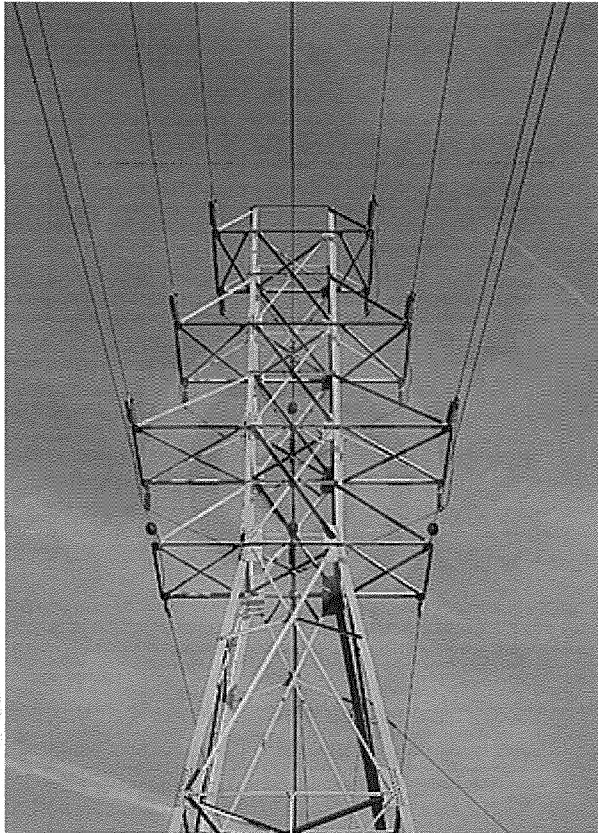
Annual Operating Schedule:

The above rates for All-Night service assume an average of approximately 11 hours operation per night and apply to lamps which will be turned on and off once each night in accordance with a regular operation schedule agreeable to the customer but not exceeding 4,100 hours per year.

## January 2012 Monthly Maintenance = \$132,483

# PG&E Power Distribution Charges

---

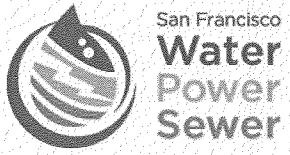


1. Each year, SFPUC pays PG&E approximately \$343,000 for power distribution.
2. SFPUC generates all power for both PG&E and SFPUC-owned street lights.
3. SFPUC pays PG&E distribution charges to transmit power using PG&E-owned power lines.



## Street Light Related Payments to PG&E

Fee Type	Approximate Annual Fees
Maintenance Fees (PG&E Lights)	\$1,595,000
Distribution Fees (PG&E Lights & SFPUC Lights)	\$342,970
Total	\$1,937,970



# San Francisco Series Loop Ownership

---



# Maintenance Levels of Service Improvement Recommendations

---

1. GIS map all street and pedestrian lights in San Francisco.
2. Establish uniform standards for levels of service, regardless of ownership.
3. Broaden 311 reporting accountability.
4. Establish Lighting Assessment Districts.



---

Services of the San Francisco Public Utilities Commission

# **San Francisco Street Light Hearing**

**May 21, 2012  
Barbara Hale, AGM  
Power Enterprise**