

**Pacific Gas and Electric Company
Core Gas Supply CPIM Calculation
Cumulative Summary**

Confidential Material
Submitted Pursuant to
General Order 66-C and
P.U. Code Section 583

2013 - 1
November-13

Month/Year	<u>CANADIAN AND U.S. GAS COSTS</u>				<u>PIPELINE RESERVATION CHARGES</u>		<u>TOTAL CPIM PERFORMANCE</u>				<u>TOLERANCE BAND</u>		(Over)/Under Tolerance
	Actuals	Benchmark	Benchmark - Actuals	Actuals % of Benchmark	Actuals	Benchmark	Actuals	Benchmark	Benchmark - Actuals	Actuals % of Benchmark	Upper Limit	Lower Limit	

Redacted													
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- (1) "Upper Limit" = Benchmark + 2.0% of Commodity Benchmark
- (2) "Lower Limit" = Benchmark - 1.0% of Commodity Benchmark

Pacific Gas and Electric Company
Core Gas Supply CPIM Calculation
Commodity Purchases and Sales

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Submitted Pursuant to
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P.U. Code Section 583

2013 - 2
November-13

Pipeline	Location	Purchases (MMBtu) (a)	Sales (MMBtu) (b)	Net Purchases and Sales (MMBtu) (a)+(b) (c)	Purchase Costs (d)	Sales Revenue (e)	Total Net Costs (d)+(e) (f)
Redacted							

Pacific Gas and Electric Company
Core Gas Supply CPIM Calculation
Transport and Storage Costs

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2013 - 3
November-13

<u>Pipeline/Facility</u>	<u>Contract</u>	<u>Fixed Reservation Costs (USD) (a)</u>	<u>Reservation Cost Discount (b)</u>	<u>Capacity Release Revenue (c)</u>	<u>Cost Subtotal (a)+(b)+(c) (d)</u>	<u>Volumetric Transportation Costs (USD) (e)</u>	<u>Total Costs (d)+(e) (f)</u>
Redacted							

**Pacific Gas and Electric Company
Core Gas Supply CPIM Calculation
Performance Summary**

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Submitted Pursuant to
General Order 66-C and
P.U. Code Section 583

2013 - 4
November-13

	<u>Actual Costs</u>	<u>Benchmark Costs</u>	<u>Benchmark - Actual Costs</u>
Redacted			

**Pacific Gas and Electric Company
Core Gas Supply CPIM Calculation
Benchmark Load**

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Submitted Pursuant to
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2013 - 5
November-13

Date	Burner Tip Determined Usage (Therms) (a)	Citygate Determined Usage (Therms) (a)x(1+dist. shrink rate) (b)	Citygate Determined Usage (MMBtu) (b)/10 (c)	Operating Imbalance Adjustment (MMBtu) (d)	Firm Storage Profile Inj/(Wth) (MMBtu) (e)	Incremental Storage Inj/(Wth) (MMBtu) (f)	Benchmark Load at Citygate (MMBtu) (c)+(d)+(e)+(f) (g)
Redacted							

Pacific Gas and Electric Company
Core Gas Supply CPIM Calculation
Daily Benchmark Sequence

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Submitted Pursuant to
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2013 - 6
November-13

Date	Benchmark Load at Citygate	RUBY OPAL	NOVA AECO	TW SAN JUAN	GTN KINGSGATE	KR OPAL	NOVA AECO	NOVA AECO	RUBY OPAL	RUBY OPAL	TW SAN JUAN	TW SAN JUAN	TOPOCK-BAJA	CITYGATE
Redacted														

Pacific Gas and Electric Company
Core Gas Supply CPIM Calculation
Daily Benchmark Summary

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Submitted Pursuant to
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2013 - 7
November-13

SEQUENCED VOLUMES AT CITYGATE (MMBtu) (a)

INDEXES AT CITYGATE (USD/MMBtu) (b)

Date	RUBY OPAL	NOVA AECO	TW SAN JUAN	GTN KINGSGATE	KR OPAL	TOPOCK-BAJA	CITYGATE	RUBY OPAL	NOVA AECO	TW SAN JUAN	GTN KINGSGATE	KR OPAL	TOPOCK-BAJA	CITYGATE
Redacted														

Pacific Gas and Electric Company
Core Gas Supply CPIM Calculation
Daily Benchmark Summary

Confidential Material
Submitted Pursuant to
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2013 - 8
November-13

TOTAL COMMODITY BENCHMARK (USD) (c) = (a) x (b)

Date	RUBY OPAL	NOVA AECO	TW SAN JUAN	GTN KINGSGATE	KR OPAL	TOPOCK-BAJA	CITYGATE	TOTAL
Redacted								

**Pacific Gas and Electric Company
Core Gas Supply CPIM Calculation
Firm and Incremental Storage**

Confidential Material
Submitted Pursuant to
General Order 66-C and
P.U. Code Section 583

2013 - 9
November-13

Date	<u>PG&E FIRM STORAGE</u>				<u>LODI GAS STORAGE, L.L.C.</u>			
	Injection/ Withdrawal (MMBtu)	Imbalance Trading (MMBtu)	Sales/Transfers (MMBtu)	Parking	Ending Inventory (e) ⁰ +{a}+{b}+{c}+{d}	Nominations at Field (MMBtu)	Equivalent at Citygate (MMBtu)	Ending Inventory (MMBtu)
	(a)	(b)	(c)	(d)	(e)	(a)	(b)	(c)
Redacted								

**Pacific Gas and Electric Company
Core Gas Supply CPIM Calculation
Capacity Release**

Confidential Material
Submitted Pursuant to
General Order 66-C and
P.U. Code Section 583

2013 - 10
November-13

Pipeline	MMBtu	Amount
EL PASO NATURAL GAS COMPANY, L.L.C.	Redacted	
GAS TRANSMISSION NORTHWEST LLC		
KERN RIVER GAS TRANSMISSION COMPANY		
PG&E CALIFORNIA GAS TRANSMISSION		
RUBY PIPELINE, L.L.C.		
TRANSCANADA - FOOTHILLS PIPE LINES LTD.		
TRANSCANADA NOVA GAS TRANSMISSION LTD.		
TRANSWESTERN PIPELINE COMPANY		
Total		

**Pacific Gas and Electric Company
Core Gas Supply CPIM Calculation
Capacity Utilization**

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2013 - 11
November-13

PG&E CALIFORNIA GAS TRANSMISSION

NORTH PATH-REDWOOD

Month/Year	Daily Volume	Days In Month	Contract Capacity	Capacity Release	Net Contract Capacity	Gas Delivered	Percentage Utilization
	(MMBtu) (a)	(b)	(MMBtu) (a)x(b) (c)	(d)	(c)+(d) (e)	(f)	(f)/(e) (g)
Nov-13	Redacted						
Dec-13							
Jan-14							
Feb-14							
Mar-14							
Apr-14							
May-14							
Jun-14							
Jul-14							
Aug-14							
Sep-14							
Oct-14							
Total							

PG&E CALIFORNIA GAS TRANSMISSION

TOPOCK-BAJA

Month/Year	Daily Volume	Days In Month	Contract Capacity	Capacity Release	Net Contract Capacity	Gas Delivered	Percentage Utilization
	(MMBtu) (a)	(b)	(MMBtu) (a)x(b) (c)	(d)	(c)+(d) (e)	(f)	(f)/(e) (g)
Nov-13	Redacted						
Dec-13							
Jan-14							
Feb-14							
Mar-14							
Apr-14							
May-14							
Jun-14							
Jul-14							
Aug-14							
Sep-14							
Oct-14							
Total							

EL PASO NATURAL GAS COMPANY, L.L.C.

Month/Year	Daily Volume	Days In Month	Contract Capacity	Capacity Release	Net Contract Capacity	Gas Delivered	Percentage Utilization
	(MMBtu) (a)	(b)	(MMBtu) (a)x(b) (c)	(d)	(c)+(d) (e)	(f)	(f)/(e) (g)
Nov-13	Redacted						
Dec-13							
Jan-14							
Feb-14							
Mar-14							
Apr-14							
May-14							
Jun-14							
Jul-14							
Aug-14							
Sep-14							
Oct-14							
Total							

GAS TRANSMISSION NORTHWEST LLC

Month/Year	Daily Volume	Days In Month	Contract Capacity	Capacity Release	Net Contract Capacity	Gas Delivered	Percentage Utilization
	(MMBtu) (a)	(b)	(MMBtu) (a)x(b) (c)	(d)	(c)+(d) (e)	(f)	(f)/(e) (g)
Nov-13	Redacted						
Dec-13							
Jan-14							
Feb-14							
Mar-14							
Apr-14							
May-14							
Jun-14							
Jul-14							
Aug-14							
Sep-14							
Oct-14							
Total							

**Pacific Gas and Electric Company
Core Gas Supply CPIM Calculation
Capacity Utilization**

Confidential Material
Submitted Pursuant to
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P.U. Code Section 583

2013 - 12
November-13

KERN RIVER GAS TRANSMISSION COMPANY

Month/Year	Daily Volume	Days In Month	Contract	Capacity Release	Net Contract	Gas Delivered	Percentage
	(MMBtu)		Capacity		Capacity		Utilization
	(a)	(b)	(a)x(b)	(d)	(c)+(d)	(f)	(f)/(e)
Nov-13	Redacted						
Dec-13							
Jan-14							
Feb-14							
Mar-14							
Apr-14							
May-14							
Jun-14							
Jul-14							
Aug-14							
Sep-14							
Oct-14							
Total							

RUBY PIPELINE, L.L.C.

Month/Year	Daily Volume	Days In Month	Contract Capacity	Capacity Release	Net Contract	Gas Delivered	Percentage
	(MMBtu)		(a)x(b)		Capacity		Utilization
	(a)	(b)	(c)	(d)	(c)+(d)	(f)	(f)/(e)
Nov-13	Redacted						
Dec-13							
Jan-14							
Feb-14							
Mar-14							
Apr-14							
May-14							
Jun-14							
Jul-14							
Aug-14							
Sep-14							
Oct-14							
Total							

TRANSWESTERN PIPELINE COMPANY

Month/Year	Daily Volume	Days In Month	Contract	Capacity Release	Net Contract	Gas Delivered	Percentage
	(MMBtu)		(a)x(b)		Capacity		Utilization
	(a)	(b)	(c)	(d)	(c)+(d)	(f)	(f)/(e)
Nov-13	Redacted						
Dec-13							
Jan-14							
Feb-14							
Mar-14							
Apr-14							
May-14							
Jun-14							
Jul-14							
Aug-14							
Sep-14							
Oct-14							
Total							

**Pacific Gas and Electric Company
Core Gas Supply CPIM Calculation
Portfolio Composition**

Confidential Material
Submitted Pursuant to
General Order 66-C and
P.U. Code Section 583

2013 - 13
November-13

Month/Year	<u>MMBtu Purchases</u>				<u>Average Price (USD)</u>				<u>Percentage of Total</u>		
	Swing	Prompt	Term	Total	Swing	Prompt	Term	Total	Swing	Prompt	Term
Nov-13	Redacted										
Dec-13	Redacted										
Jan-14	Redacted										
Feb-14	Redacted										
Mar-14	Redacted										
Apr-14	Redacted										
May-14	Redacted										
Jun-14	Redacted										
Jul-14	Redacted										
Aug-14	Redacted										
Sep-14	Redacted										
Oct-14	Redacted										
Total	Redacted										

**Pacific Gas and Electric Company
Core Gas Supply CPIM Calculation
Executed Hedge Summary**

Confidential Material
Submitted Pursuant to
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2013 - 14
November-13

Execution Month	Coverage Period	Option Volumes (MMBtu)	Option Premiums	Swap Volumes (MMBtu)	Swap Average Price	Total Volume (MMBtu)
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**Pacific Gas and Electric Company
Core Gas Supply CPIM Calculation
AECO Index**

Confidential Material
Submitted Pursuant to
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P.U. Code Section 583

2013 - 1
November-2013

Month/Year (a)	AECO Index CAN\$/GJ (1) (b)	Conversion of Index to C\$/MMBtu (2) (c)	Foothills Fuel % (d)	Index Grossed Up for Fuel (c) / (1-(d)) (e)	Monthly Exchange Rate (3) (f)	Index @ Kingsgate U\$/MMBtu (e) / (f) (g)	GTN Fuel % (h)	Index Grossed Up for Fuel (g) / (1-(h)) (i)	GTN Volumetric Rate (j)	Total Index @ Malin (i) + (j) (k)	CGT Fuel % (l)	Index Grossed Up for Fuel (k) / (1-(l)) (m)	Redwood CGT Volumetric Rate (n)	Total Index @ Citygate (m) + (n) U\$/MMBtu (o)
Nov-2013	Redacted													
Dec-2013	Redacted													
Jan-2014	Redacted													
Feb-2014	Redacted													
Mar-2014	Redacted													
Apr-2014	Redacted													
May-2014	Redacted													
Jun-2014	Redacted													
Jul-2014	Redacted													
Aug-2014	Redacted													
Sep-2014	Redacted													
Oct-2014	Redacted													

(1) CGPR NGX AB-NIT Month Ahead Index (7A) C\$/GJ
(2) A conversion rate of 1.055056 GJ/MMBtu is used.
(3) This is the Canadian exchange rate at date of settlement.

**Pacific Gas and Electric Company
Core Gas Supply CPIM Calculation
Kingsgate Index**

Confidential Material
Submitted Pursuant to
General Order 66-C and
P.U. Code Section 583

2013 - 2
November-2013

Month/Year (a)	AECO Index CAN\$/GJ (1) (b)	NOVA IT Rate CAN\$/GJ (c)	Foothills Fuel % (d)	Foothills IT Rate CAN\$/GJ (e)	Monthly Exchange Rate (2) (f)	Index @ Kingsgate US\$/MMBtu (3) (g)	GTN Fuel % (h)	Index Grossed Up for Fuel (g) / [1-(h)] (i)	GTN Volumetric Rate (j)	Total Index @ Malin (i) + (j) (k)	CGT Fuel % (l)	Index Grossed Up for Fuel (k) / [1-(l)] (m)	Redwood CGT Volumetric Rate (n)	Total Index @ Citygate (m) + (n) US\$/MMBtu (o)
Nov-2013	Redacted													
Dec-2013														
Jan-2014														
Feb-2014														
Mar-2014														
Apr-2014														
May-2014														
Jun-2014														
Jul-2014														
Aug-2014														
Sep-2014														
Oct-2014														

(1) CGPR NGX AB-NIT Month Ahead Index (7A) Cdn\$/GJ

(2) Conversion rate at date of settlement CAN\$/US\$

(3) Index @ Kingsgate = $\frac{((b+c)/(1-d))+e}{f} * (1.055056 \text{ GJ/MMBtu})$

**Pacific Gas and Electric Company
Core Gas Supply CPIM Calculation
Rockies Ruby Index**

Confidential Material
Submitted Pursuant to
General Order 66-C and
P.U. Code Section 583

2013 - 3
November-2013

Month/Year (a)	Ruby Index \$/MMBtu (1) (b)	Ruby Fuel % (c)	Index Grossed Up for Fuel (b) / [1-(c)] (d)	Ruby Volumetric Rate (e)	Index @ Malin \$/MMBtu (d) + (e) (f)	CGT Fuel % (g)	Index Grossed Up for Fuel (f) / [1-(g)] (h)	CGT Redwood Volumetric Rate (i)	Total Index @ Citygate \$/MMBtu (h) + (i) (j)
Nov-2013	Redacted								
Dec-2013	Redacted								
Jan-2014	Redacted								
Feb-2014	Redacted								
Mar-2014	Redacted								
Apr-2014	Redacted								
May-2014	Redacted								
Jun-2014	Redacted								
Jul-2014	Redacted								
Aug-2014	Redacted								
Sep-2014	Redacted								
Oct-2014	Redacted								

(1) Per Inside FERC Gas Market Report, Northwest Pipeline - Rocky Mountains

**Pacific Gas and Electric Company
Core Gas Supply CPIM Calculation
Rockies Kern Index**

Confidential Material
Submitted Pursuant to
General Order 66-C and
P.U. Code Section 583

2013 - 4
November-2013

Month/Year (a)	Kern Index \$/MMBtu (1) (b)	Kern Fuel % (c)	Index Grossed Up for Fuel (b) / [1-(c)] (d)	Kern Volumetric Rate (e)	Index @ Daggett \$/MMBtu (d) + (e) (f)	CGT Fuel % (g)	Index Grossed Up for Fuel (f) / [1-(g)] (h)	CGT Baja Volumetric Rate (i)	Total Index @ Citygate \$/MMBtu (h) + (i) (j)
Nov-2013	Redacted								
Dec-2013									
Jan-2014									
Feb-2014									
Mar-2014									
Apr-2014									
May-2014									
Jun-2014									
Jul-2014									
Aug-2014									
Sep-2014									
Oct-2014									

(1) Per Inside FERC Gas Market Report, Northwest Pipeline - Rocky Mountains

**Pacific Gas and Electric Company
Core Gas Supply CPIM Calculation
El Paso/SJ Index**

Confidential Material
Submitted Pursuant to
General Order 66-C and
P.U. Code Section 583

2013 - 5

November-2013

Month/Year (a)	El Paso Index \$/MMBtu (1) (b)	El Paso Fuel % (c)	Index Grossed Up for Fuel (b) / [1-(c)] (d)	El Paso Volumetric Rate (e)	Index @ Topock \$/MMBtu (d) + (e) (f)	CGT Fuel % (g)	Index Grossed Up for Fuel (f) / [1-(g)] (h)	CGT Volumetric Rate (i)	El Paso Index @ Citygate \$/MMBtu (h) + (i) (j)	Transwestern Index @ Citygate \$/MMBtu (k)	El Paso % (l)	Transwestern % (m)	Total Index @ Citygate \$/MMBtu (n)
Nov-2013	Redacted												
Dec-2013	Redacted												
Jan-2014	Redacted												
Feb-2014	Redacted												
Mar-2014	Redacted												
Apr-2014	Redacted												
May-2014	Redacted												
Jun-2014	Redacted												
Jul-2014	Redacted												
Aug-2014	Redacted												
Sep-2014	Redacted												
Oct-2014	Redacted												

(1) Per Inside FERC Gas Market Report, El Paso Natural Gas - San Juan

**Pacific Gas and Electric Company
Core Gas Supply CPIM Calculation
Transwestern Index**

Confidential Material
Submitted Pursuant to
General Order 66-C and
P.U. Code Section 583

2013 - 6
November-2013

Month/Year	Transwestern Index (1) \$/MMBtu	Transwestern Fuel %	Index Grossed Up for Fuel (b) / [1-(c)]	Transwestern Volumetric Rate	Index @ Topock \$/MMBtu (d) + (e)	CGT Fuel % (g)	Index Grossed Up for Fuel (f) / [1-(g)]	CGT Volumetric Rate (i)	Total Index @ Citygate \$/MMBtu (h) + (i)
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
Nov-2013	Redacted								
Dec-2013	Redacted								
Jan-2014	Redacted								
Feb-2014	Redacted								
Mar-2014	Redacted								
Apr-2014	Redacted								
May-2014	Redacted								
Jun-2014	Redacted								
Jul-2014	Redacted								
Aug-2014	Redacted								
Sep-2014	Redacted								
Oct-2014	Redacted								

(1) Per Inside FERC Gas Market Report, Transwestern Pipeline - San Juan

**Pacific Gas and Electric Company
Core Gas Supply CPIM Calculation
Topock Daily Index**

Confidential Material
Submitted Pursuant to
General Order 66-C and
P.U. Code Section 583

2013 - 7
November-2013

Date (a)	Daily Index @ Topock \$/MMBtu (1) (b)	CGT Fuel % (c)	Index Grossed Up for Fuel (b) / [1-(c)] (d)	CGT Volumetric Rate (e)	Total Index @ Citygate \$/MMBtu (d) + (e) (f)
11/01/2013	Redacted				
11/02/2013					
11/03/2013					
11/04/2013					
11/05/2013					
11/06/2013					
11/07/2013					
11/08/2013					
11/09/2013					
11/10/2013					
11/11/2013					
11/12/2013					
11/13/2013					
11/14/2013					
11/15/2013					
11/16/2013					
11/17/2013					
11/18/2013					
11/19/2013					
11/20/2013					
11/21/2013					
11/22/2013					
11/23/2013					
11/24/2013					
11/25/2013					
11/26/2013					
11/27/2013					
11/28/2013					
11/29/2013					
11/30/2013					

(1) NGI Daily Gas Price Index, California - Southern Border, PG&E, Average

Pacific Gas and Electric Company
Core Gas Supply CPIM Calculation
PGE Citygate Daily Index

Confidential Material
Submitted Pursuant to
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2013 - 8

November-2013

Date (a)	PG&E Citygate Index (1) (b)
11/01/2013	Redacted
11/02/2013	
11/03/2013	
11/04/2013	
11/05/2013	
11/06/2013	
11/07/2013	
11/08/2013	
11/09/2013	
11/10/2013	
11/11/2013	
11/12/2013	
11/13/2013	
11/14/2013	
11/15/2013	
11/16/2013	
11/17/2013	
11/18/2013	
11/19/2013	
11/20/2013	
11/21/2013	
11/22/2013	
11/23/2013	
11/24/2013	
11/25/2013	
11/26/2013	
11/27/2013	
11/28/2013	
11/29/2013	
11/30/2013	

(1) NGI Daily Gas Price Index, California - PG&E Citygate, Average