

Rating

Price (21 Feb 13, US\$)

Enterprise value (US\$ m)

¹Target price is for 12 months.

analyst's or each team's respective sector.

*Stock ratings are relative to the coverage universe in each

Target price (US\$)

52-week price range Market cap. (US\$ m)

NEUTRAL

46.51 - 39.71

Research Analysts

dan.eggers@credit-suisse.com

kevin.cole@credit-suisse.com

matthew.davis@credit-suisse.com

katie.chapman@credit-suisse.com

Dan Eggers, CFA

Kevin Cole, CFA

212 538 8430

212 538 8422

Matthew Davis

Katie Chapman 212 325 1261

212 325 2573

41.41

45.001

17 806

31,690

PG&E Corporation (PCG)

FORECAST REDUCTION

Hits Keep Coming; Not Time Yet

Our take: PCG shares feel potentially set u p to have a good overall 2013, but we still believe a push into the stock at this point is early. We think (a) the overhang of big equity needs (we're at \$2.6 BN for '13 -14), (b) the surprisingly big but still not fully sized encroachment costs that feel I like they could go higher than \$500 MM, and (c) limited clarity on size and duration of non -recoverable operating costs as PCG improves from bottom to upper quartiles will all limit market confidence in the stock. We appreciate the 'PCG looks cheap on '15 P/E' argument but doubts about the '15 estimate make this case harder to embrace.

We maintain our Neutral rating and are updating our '13 -'15 estimates to \$2.68, \$3.07 and \$3.29 to incorporate the lower FERC ROE on transmission, greater share dilution and some higher costs.

PCG's ongoing 4Q12 EPS was \$0.59, in -line with the Street. Mgmt issued '13 guidance of \$2.55 -2.75 (Street was at \$2 .78) along with expected equity issuance of \$1 -1.2BN before including a fine above the previously accrued \$200M.

Another Wa ve of Costs. PCG provided a preliminary estimate for remediation of encroachment costs at \$500 MM over 5 years that will be borne by shareholders with a final estimate expected in late 2013. We appreciate market frustration over this announcem ent both for the absolute cost (the hits like these to shareholders have been large and frequent) but also treatment as a non -recurring earnings hit even though it spans 5 years and relates to costs for deficiencies not related to San Bruno (it feels selective as to what is recurring vs event specific?).

hare p	rice perfo	rmance		
Da	ily Feb 22, 2012	- Feb 21, 2013, 2	2/22/12 = US\$41.91	
47		M		part of the
45	ZWN	A TOTAL	My my	
13	May V	M	MAN A	M
39	M.		And An	*ESAMAN
Feb-12	May-12	Aug-12	Nov-12	
	Price		S&P 500 INDEX	

On 02/21/13 the S&P 500 INDEX closed at 1502.42

Quarterly EPS	Q1	Q2	Q3	Q4
2012A	0.89	0.81	0.93	0.59
2013E	0.79	0.75	0.78	0.37
2014E		***************************************		

Financial and valuation metrics		***************************************	***************************************	
Year	12/12A	12/13E	12/14E	12/15E
EPS (CS adj.) (US\$)	3.22	2.68	3.07	3.29
Prev. EPS (US\$)	_	2.85	3.19	3.46
P/E (x)	12.9	15.4	13.5	12.6
P/E rel. (%)	87.2	112.4	109.5	114.2
EBITDA (US\$ m)	4,883	4,112	4,697	5,136
EV/EBITDA (current)	6.1	7.3	6.4	5.8
Net debt (US\$ m)	12,178	13,884	15,835	17,563
FFO/Interest	5.2	3.5	3.6	3.6
FFO/Total Debt	0.28	0.18	0.18	0.18
Number of shares (m)	430	BV/share (Next C	tr., US\$)	31
Net debt (Next Qtr., US\$ m)	12,586	Dividend (current	, US\$)	1.8
Net debt/tot cap (Next Qtr., %)	91.4	Dividend yield (%)	1.1

Source: Company data, Credit Suisse estimates.

DISCLOSURE APPENDIX CONTAINS IMPORTANT DISCLOSURES, ANALYST CERTIFICATIONS, INFORMATION ON TRADE ALERTS, ANALYST MODEL PORTFOLIOS AND THE STATUS OF NON -U.S ANALYSTS. US Disclosure: Credit Suisse does and seeks to do business with companies covered in its research reports. As a result, investors should be aw that the Firm may have a conflict of interest that could affect the objectivity of this report. Investors should consides the port as only a single factor in making their investment decision.

CREDIT SUISSE SECURITIES RESEARCH & ANALYTICS

BEYOND INFORMATION® Client-Driven Solutions, Insights, and Access



- FERC ROE: PCG requested a FERC rehearing on the 9.1% electric transmission ROE, but this will take a while to resolve with the only other recourse being federal appeals court if FERC does not change. The ROE drop to 9.1% costs about \$0.10 of EPS.
- Big investment, equity: PCG plans to spend \$4.5 -6.0 BN of capex a year through 2016 (6-10% annual rate base growth) with the range dependent upon how much the CPUC approves in the pending general rate case (GRC) which realistically is a 2014 resolution. To fund capex, losses from the encroachment repairs, and assumed San Bruno fine (we use \$600 MM) we see PCG needing \$2.6 BN of equity in '13/'14 and about \$800 MM a year thereafter.
- Cost questions. While hard to quantify until GRC is resolved, we worry PCG could underearn for longer than just 2013 as mgmt incurs O&M at higher than approved levels as they work to raise operating metrics from 3rd / 4th quartile in most categories to 1st / 2nd which will likely take several years to realize. As hard as it is to accept underearning especially with supportive CA regulatory mechanisms, we think the concerted efforts to improve performance is the right long -term strategy for the utility, customers, and ultimately investors.

PG&E Corporation (PCG)

Income Statement	Q112A	Q212A	Q312A	Q412A	2012A	Q113E	Q213E	Q313E	Q413E	2013E	2014E	2015E
GrossMargin	2,439	2,499	2,575	2,504	10,017	2,291	2,366	2,428	2,370	9,455	9,842	10,384
Operation & Maintenance Expense	1,116	1,201	1,220	1,432	4.968	1,144	1,231	1,250	1,468	5,092	5,194	5.298
Additional San Bruno Related O&N	38	59	66	73	236	75	75	75	75	300	0	- 1
Public Purposed Programs	0	0	0	0	0	0	0	0	0	0	0	0
O&M Related to Pension Funding	0	0	0	0	0	0	0	0	0	0	0	0
Taxes Other Than Income Taxes	0	0	0	0	0	0	0	0	0	0	0	0
Other Income	26	32	26	(14)	70	13	13	13	13	50	50	50
Energy Efficiency Incentives	0	0	0	0	0	0	0	0	0	0	0	0
EBITDA	1,311	1,271	1,315	985	4,883	1,085	1,072	1,115	840	4,112	4,697	5,136
	100	500	500	252	1011	0.55	050	000	000	1.105	4.500	4.040
Depreciation & Amortization	480	506	502	353	1,841	355	358	360	362	1,435	1,523	1,613
Securitization Amortization	102	98	113	110	423	0	0	0	0	0	0	0
Pension Funding Amortization	2	2	2	2	8	2	2	2	2	8	8	8
Operating Income	727	665	698	520	2,611	727	713	753	475	2,669	3,167	3,514
Net Interest Expense	171	172	175	174	692	180	186	192	198	755	839	922
Incremental cost of debt					0.0%	5.5%	5.5%	5.5%	5.5%	5.5%	5.5%	5.5%
We ighted Avg. Cost of Debt	5.4%	5.3%	5.3%	5.4%	5.4%	5.4%	5.5%	5.6%	5.6%	5.6%	5.5%	5.4%
Securitization Interest Expense	2	1	1	0	4	-	-	-	-	-	-	-
Earnings Before Taxes	554	492	522	346	1,915	548	527	562	278	1,914	2,328	2,592
, T. F. ((D. 6))	470	445	400		504	405	407	100	00	200	000	000
Income Tax Expense/(Benefit)	179	145	120	89	534	195	187	199	99	680	826	920
Effective Tax Rate	32.3%	29.5%	23.1%	25.8%	27.9%	35.5%	35.5%	35.5%	35.5%	35.5%	35.5%	35.5%
Net Income	375	347	402	257	1,381	353	340	362	179	1,235	1,501	1,672
Preferred Securities	3	4	3	4	14	3	4	3	4	14	14	14
Recurring Net Income	372	343	399	253	1,367	350	336	359	175	1,221	1,487	1,658
Extraordinary Items	(139)	(108)	(38)	(266)	(551)	(99)	(99)	(99)	(499) ₹	(795)	(169)	
Reported Net Income	233	235	361	(13)	816	252	237	260	(324)	426	1,319	1,658
reported the monite	200	200	001	(10)	010	202	201	200	(024)	420	1,010	1,000
Recurring Earningsper Share	0.89	0.81	0.93	0.59	3.22	0.79	0.75	0.78	0.37	2.68	3.07	3.29
Growh					-10.1%					-16.6%	14.5%	7.2%
Reported EPS	0.56	0.55	0.84	(0.03)	1.92	0.57	0.53	0.57	(0.69)	0.94	2.72	3.29
Fully Diluted Shares Outstanding	416	425	429	430	425	443	450	458	469	455	484	504
9.5% Convertible	0	0	0	0	0	0	0	0	0	0	0	0
Stated Diluted Shares Outstanding	416	425	429	430	425	443	450	458	469	455	484	504
Share Price	41.88	43.88	44.41	41.42	42.90	42.00	42.63	43.27	43.92	42.95	46.55	49.35
Share Fride	+1.00	40.00	ਰਚਣਾ।	71.74	TE.00	72.00	72.00	70.21	70.02	TE.00	70.00	70.00
Common Shares	416	425	429	430	425	442	449	458	469	455	484	503

Source: Company data, Credit Suisse estimates

CashFlow Statement	Q112A	Q212A	Q312A	Q412A	2012A	Q113E	Q213E	Q313E	Q413E	2013E	2014E	CREDIT 201
Net Income	236	239	364	(9)	830	353	340	362	179	1.235	1,319	US 1985
D&A	582	604	615	463	2,264	355	358	360	362	1,435	1,523	1,6 1,6
Other D&A	2	2	2	2	. 8	0	0	0	0	0	0	. 4
Extraordinary Items / San Bruno	(163)	(183)	(40)°	(426) [®]	(812)	0	0	0	0	0	0	
Deferred Income Taxes	146	88	390	24	648	125	117	129	(160)	211	450	35
Changes in Working Capital	17	(12)	26	565	596	0	0	0	Ò	0	0	
Energy Efficiency cash levelization	0	Ô	0	0	0	0	0	0	0	0	0	
Other	111	505 **	(79)	811	1,348	(55)	(55)	(55)	(55)	(220)	(158)	(10
CashFlow From Operations	931	1,243	1,278	1,430	4,882	778	760	796	326	2,661	3,134	3,51
Capita I Expenditures	(1,094)	(1,125)	(1,142)	(1,263)	(4,624)	(1,283)	(1,283)	(1,283)	(1,283)	(5,130)	(5,150)	(5,05
Acquisitions of Assets & Sec.	Ó	Ó	Ó	Ó	Ó	Ó	0	0	0	O	0	
Divestitures of Assets & Sec.	0	0	0	0	0	0	0	0	0	0	0	
Other I nvestments	1	12	(11)	96	98	0	0	0	0	0	0	
CashFlow From Investing	(1,093)	(1,113)	(1,153)	(1,167)	(4,526)	(1,283)	(1,283)	(1,283)	(1,283)	(5,130)	(5,150)	(5,05
Issuance/(Redemption) of Debt	(245)	23	65	93	(64)	408	429	297	572	1,706	1,951	1,72
Securitization Issuance / (Redempti-	(102)	(98)	(113)	(110)	(423)	0	0	0	0	0	0	
Issuance/(Rep.) of Pref. Equity	0	0	0_	0	0	0	0	0	0	0	0	
Issuance/(Rep.) of Common Equity	387	174	141	49	751	300	300	400	600	1,600	1,000	85
Common Stock Dividends	(182)	(186)	(188)	(190)	(746)	(203)	(207)	(211)	(216)	(837)	(935)	(1,04
Convert pass thru dividends	0	0	0	0	0	0	0	0	0	0	0	
Other Financing	48	(8)	(26)	0	14	0	0	0	0	0	0	
CashFlow From Financing	(94)	(95)	(121)	(158)	(468)	504	522	486	956	2,469	2,016	1,53
Increase/(Decrease) in Cash	(256)	35	4	105	(112)	0	0	0	0	0	0	
Cash at Beginning of Period	513	257	292	296	513	401	401	401	401	401	401	40
Cas hat End of Period	257	292	296	401	401	401	401	401	401	401	401	40

Source: Company data, Credit Suisse estimates

Balance Sheet	Q112A	Q212A	Q312A	Q412A	2012A	Q113E	Q213E	Q313E	Q413E	2013E	2014E	2015E
Cash & Cash Equivalents	257	292	296	401	401	401	401	401	401	401	401	401
Restricted Cash	385	381	418	330	330	330	330	330	330	330	330	330
Accounts Receivable	1,540	1,684	1,964	1,698	1,698	1,698	1,698	1,698	1,698	1,698	1,698	1,698
Regulatory Balancing Accts.	1,425	1,351	1,475	936	936	936	936	936	936	936	936	936
Inventories	370	415	454	444	444	444	444	444	444	444	444	444
Prepaid Expenses and Other	2,189	1,417	986	1,312	1,312		1,312		1,312	1,312	1,312	1,312
Frepaid Expenses and Other	2,109	1,417	900	1,512	1,312	1,312	1,312	1,312	1,312	1,312	1,512	1,312
Total Current Assets	6,166	5,540	5,593	5,121	5,121	5,121	5,121	5,121	5,121	5,121	5,121	5,121
Gross PP&E	50,356	51,348	52,011	54,167	54,167	55,450	56,732	58,015	59,297	59,297	64,447	69,497
Less Accum. Depreciation	(16,107)	(16,446)	(16,361)	(16,644)	(16,644)	(16,999)	(17,357)	(17,717)	(18,079)	(18,079)	(19,602)	(21,216)
Total PP&E	34,249	34,902	35,650	37,523	37,523	38,450	39,375	40,298	41,218	41,218	44,845	48,282
Other Noncurrent Assets												
Regulatory Assets	6,565	6,534	6,527	6,809	6,809	6,864	6,919	6,974	7,029	7,029	7,187	7,294
Nuclear Decommissiong Funds	2,134	2,106	2,155	2,161	2,161	2,161	2,161	2,161	2,161	2,161	2,161	2,161
Other/Restricted Cash	1,074	1,033	943	835	835	835	835	835	835	835	835	835
Total Other Assets	9,773	9,673	9,625	9,805	9,805	9,860	9,915	9,970	10,025	10,025	10,183	10,290
Total Assets	50,188	50,115	50,868	52,449	52,449	53,431	54,411	55,389	56,364	56,364	60,148	63,693
Chart Tarra Daht	1 401	1.070	397	400	400	400	400	400	400	400	400	400
Short Term Debt	1,401	1,079		492	492	492	492	492	492	492	492	492 0
Short Term Securitized Debt	321	223	110	0	0	0	0	0	0 2,476	0	0	
Accounts Payable	2,666	2,194	2,100	2,476	2,476 6	2,476	2,476	2,476	2,476 6	2,476 6	2,476 6	2,476 6
Accrued Taxes	110	112	15	6		6	6	6				
Other	2,777	2,749	2,814	3,282	3,282	3,282	3,282	3,282	3,282	3,282	3,282	3,282
Total Current Liabilities	7,275	6,357	5,436	6,256	6,256	6,256	6,256	6,256	6,256	6,256	6,256	6,256
Long Term Debt	11,767	12,166	12,915	12,417	12,417	12,825	13,254	13,551	14,123	14,123	16,074	17,802
Convetible	0	0	0	0	0	0	0	0	0	0	0	0
Long Term Securitized Debt	0	0	0	0	0	0	0	0	0	0	0	0
Deferred income taxes	6,190	6,272	6,724	6,748	6,748	6,873	6,990	7,119	6,959	6,959	7,409	7,759
Regulatory Liabilities	4,927	5,008	5,107	5,088	5,088	5,088	5,088	5,088	5,088	5,088	5,088	5,088
Other	7,217	7,258	7,301	8,614	8,614	8,614	8,614	8,614	8,614	8,614	8,614	8,614
Total Long Term Liabilities	30,101	30,704	32,047	32,867	32,867	33,399	33,946	34,372	34,784	34,784	37,185	39,263
Pref. Stock of Subsidiaries	252	252	252	252	252	252	252	252	252	252	252	252
Stockholders'Equity												
Common Stock	8,011	8,204	8,362	8,428	8,428	8,728	9,028	9,428	10,028	10,028	11,028	11,878
Retained Earnings	4,752	4,793	4,957	4,747	4,747	4,897	5,030	5,182	5,145	5,145	5,529	6,144
Other Comprehensive Income	(203)	(195)	(186)	(101)	(101)	(101)	(101)	(101)	(101)	(101)	(101)	(101)
	40.500	40.000	13,133	13,074	13,074	13,524	13,957	14,509	15,072	15,072	16,456	17,921
Total Stockholders'Equity	12,560	12,802	10,100	10,014	10,014	15,524	10,501	14,505	13,012	10,012	10,100	,

Source: Company data, Credit Suisse estimates



Companies Mentioned (Price as of 21-Feb-2013)

PG&E Corporation (PCG.N, \$41.41, NEUTRAL, TP \$45.0)

Disclosure Appendix

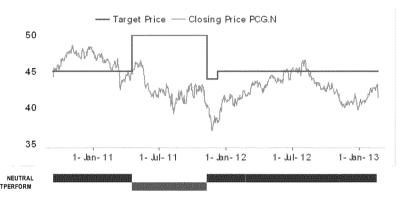
Important Global Disclosures

I, Dan Eggers, CFA, certify that (1) the views expressed in this report accurately reflect my personal views about all of the subject companies and securities and (2) no part of my compensation was, is or will be directly or indirectly related to the specific recommendations or views expressed in this report.

Price and Rating History for PG&E Corporation (PCG.N)

PCG.N	Closing Price	Target Price	
Date	(US\$)	(US\$)	Rating
13-Sep-10	44.26	45.00	N
18-Apr-11	44.65	50.00	0
10-Nov-11	40.09	44.00	N
09-Dec-11	38.24	45.00	

^{*} Asterisk signifies initiation or assumption of coverage.



The analyst(s) responsible for preparing this research report received Compensation that is based upon various factors including Credit Suisse's total revenues, a portion of which are generated by Credit Suisse's investment banking activities

As of December 10, 2012 Analysts' stock rating are defined as follows:

Outperform (0): The stock's total return is expected to outperform the relevant benchmark*over the next 12 months.

Neutral (N): The stock's total return is expected to be in line with the relevant benchmark* over the next 12 months.

Underperform (U): The stock's total return is expected to underperform the relevant benchmark* over the next 12 months.

*Relevant benchmark by region: As of 10th December 2012, Japanese ratings are based on a stock's total return relative to the analyst's coverage universe which consists of all companies covered by the analyst within the relevant sector, with Outperfor ms representing the most attractive, Neutrals the less attractive, and Underperforms the least attractive investment opportunities. As of 2nd October 2012, U.S. and Canadian as well as European ra tings are based on a stock's total return relative to the an alyst's coverage universe which consists of all companies covered by the analyst within the relevant sector, with Outperforms representing the most attractive, Neutrals the less attractive, and Underperforms the least attractive investment opportunities. F or Latin American and non -Japan Asia stocks, ratings are based on a stock's total return relative to the average total return of the relevant country or regional benchmark; Austr alia. New Zealand are, and prior to 2nd October 2012 U.S. and Canadian ratings were based on (1) a stock's absolute total return potential to its current share price and (2) the relative attractiveness of stock's total return potential within an analyst's coverage universe. For Australian and New Zealand stocks, 12 -month rolling y ield is incorporated in the absolute total -15% level in the Outperform and Underperform stock rating definitions, respectively. The 15% and return calculation and a 15% and a 7.5% threshold replace the 10 7.5% thresholds replace the +10 -15% and -10-15% lev els in the Neutral stock rating definition, respectively. Prior to 10th December 2012, Japanese ratings were based on a stock's total return relative to the average total return of the relevant country or regional benchmark.

Restricted (R): In certain circumstances, Credit Suisse policy and/or applicable law and regulations preclude certain types of communications, including an investment recommendation, during the course of Credit Suisse's engagement in an investment banking transaction and in certain other circumstances.

Volatility Indicator [V]: A stock is defined as volatile if the stock price has moved up or down by 20% or more in a month in at least 8 of the past 24 months or the analyst expects significant volatility going forward.

Analysts' sector weightings are distinct from analysts' stock ratings and are based on the analyst's expectations for the fundamentals and/or valuation of the sector* relative to the group's historic fundamentals and/or valuation:

Overweight: The analyst's expectation for the sector's fundamentals and/or valuation is favorable over the next 12 months.

Market Weight: The analyst's expectation for the sector's fundamentals and/or valuation is neutral over the next 12 months.

Underweight: The analyst's expectation for the sector's fundamentals and/or valuation is cautious over the next 12 months.

*An analyst's coverage sector consists of all companies covered by the analyst within the relevant sector. An analyst may cover untiple sectors.

PG&E Corporation (PCG) 6



Credit Suisse's distribution of stock ratings (and banking clients) is:

Global	Ratings	Distribution
Giudai	Naumus	DISTIDUTION

Rating	Versus universe (%)	Of which banking clients (%)
Outperform/Buy*	43%	(54% banking clients)
Neutral/Hold*	38%	(46% banking clients)
Underperform/Sell*	16%	(40% banking clients)
Restricted	3%	

*For purposes of the NYSE and NASD ratings distribution disclosure requirements, our stock ratings of Outperform, Neutral, an d Underperform most closely correspond to Buy, Hold, and Sell, respectively; however, the meanings are not the same, as our stock ratings are determined on a relative basis. (Please refer to definitions above.) An investor's decision to buy or sell a security should be based on investment objectives, current holdin gs, and other individual factors.

Credit Suisse's policy is to update research reports as it deems appropriate, based on developments with the subject company, the sector or the market that may have a material impact on the research views or opinions stated herein.

Credit Suisse's policy is only to publish investment research that is impartial, independent, clear, fair and not misleading. For more detail please refer to Credit Suisse's Policies for Managing Conflicts of Interest in connection with Investment Research: http://www.csfb.com/research and analytics/disclaimer/managing_conflicts_disclaimer.html

Credit Suisse does not provide any tax advice. Any statement herein regarding any US federal tax is not intended or written to be used, and cannot be used, by any taxpayer for the purposes of avoiding any penalties.

Price Target: (12 months) for PG&E Corporation (PCG.N)

Method: We reach our \$45 target price on PG&E Corp. using a zero premium to group traditional mulitples - currently we are using discounted 2013 group multiples of 15x Price to Earnings (P/E).

Risk: Risks to our \$45 target price on PG&E Corp include: (1) negative regulatory decisions that disallow PCG's planned capital spending, ROE degradation, or non-recoverable O&M (2) unknown liability of San Bruno gas pipe explosion (3) a significant increase in natural gas prices that raises the cost of electricity that is passed through to end use customers in PCG's northern California service territory, (4) Nuclear risk.

Please refer to the firm's disclosure website at www.credit-suisse.com/researchdisclosures for the definitions of abbreviations typically used in the target price method and risk sections.

See the Companies Mentioned section for full company names

Credit Suisse expects to receive or intends to seek investment banking related compensation from the subject company (PCG.N) within the next 3 months.

As of the date of this report, Credit Suisse makes a market in the following subject companies (PCG.N).

Important Regional Disclosures

Singapore recipients should contact Credit Suisse AG, Singapore Branch for any matters arising from this research report.

The analyst(s) involved in the preparation of this report have not visited the material operations of the subject company (PCG.N) within the past 12 months

Restrictions on certain Canadian securities are indicated by the following abbreviations: NVS--Non-Voting shares; RVS--Restricted Voting Shares; SVS--Subordinate Voting Shares.

Individuals receiving this report from a Canadian investment dealer that is not affiliated with Credit Suisse should be advised that this report may not contain regulatory disclosures the non-affiliated Canadian investment dealer would be required to make if this were its own report.

For Credit Suisse Securities (Canada), Inc.'s policies and procedures regarding the dissemination of equity research, please visit http://www.csfb.com/legal_terms/canada_research_policy.shtml.

As of the date of this report, Credit Suisse acts as a market maker or liquidity provider in the equities securities that are the subject of this report.

Principal is not guaranteed in the case of equities because equity prices are variable.

Commission is the commission rate or the amount agreed with a customer when setting up an account or at any time after that.

For Credit Suisse disclosure information on other companies mentioned in this report, please visit the website at www.credit-suisse.com/researchdisclosures or call +1 (877) 291-2683.

PG&E Corporation (PCG) 7



References in this report to Credit Suisse include all of the subsidiaries and affiliates of Credit Suissetimpender its investment banking division. For more information on our structure, please use the following linkhttps://www.credisuisse.com/who_we_are/enthis report may contain materialatis not directed to, or intended for distribution to or use by, any person or entity who is a citizen or resident of or located in any locality, state, country or other jurisdiction where such distribution, publication, availability und unsecondary to law or regulation or which would subject Credit Suisse AG or its affiliates ("CS") to any registration or licensing requirement within such jurisdiction. All material presented in this report, weder is ally indicated otherwise, is under copyrit to CS. None of the material, nor its content, nor any copy of it, may be altered in any way, transmitted to, copied or distributed to any other party, without there is written permission of CS. All trademarks, service marks and logos used in this report are trademarks or service marks or registered trademarks or service marks of CS or its affiliates. The infotoration material presented in this report are provided to you for information purposes only and are not to be used or consider as an offer or the solicitation of an offer to sell or to buy or subscribe for securities or other financial instrum@ntsayCnot have taken any steps to ensure that the securities referred to in this report are suitable for any particular investmillOot treat recipients of this report as its customers by virtue of their receiving this report. The investments and services contained or referred to in this report may not be suitable for you and it is recommended that you consult add not investment advisor if you are in doubt about such investments or investment services. Nothing in this report constitutes investment, legal, accounting or tax advice, or a representation that any investor strategy is suitable or appropriate to your indibidal circumstances, or otherwise constitutes a personal recommendation to you. CS does not advise on the tax consequences of investments and advisements and advisement tax adviser. Please note in particular that the bases and levels of taken may change. Information and opinions presented in this report have been obtained or derived from sources believed by 408the, but CS makes no representation as to their accuracy or completeness. CS accepts no liability for loss arising framuse of the material presented in this report, except that this exclusion of liability does not apply to the extentchat su liability arises under specific statutes or regulations applicable to CS. This report is not to be relied upon in substitute exercise of independent judgment. CS may have issued, and may in the future issue, other communications that are inconsistent with, and reach different conclusions from, the information presented ieptort. Those communications reflect the diffent assumptions, views and analytical methods of the analysts who prepared them and CS is under no obligation to ensure that such other communication of any recipient of this report. CS may, to the extent permitted by law, prticipate or invest in financing transactions with the issuer(s) of the securities referred to in this report, perform form form from such issuers, and/or have a position or holding, or other material interest, or effect transaction securities or options thereon, or other investments related thereto. In addition, it may make markets in ites secutioned in the material presented in this report. CS may have, within the last three years, served as managemanagerof a public offering of securities for, or currently may make a primary market in issues of, any or all of the entities mentioned in this report or may be providing, or have provided within the previous 12 months, significant indivision to the investment concerned or a related investment. Additional information is, subject to duties of confidentiality, available on request. Some investments referred emainthments be offered solely by a single entity and in the case one investments solely by CS, or an associate of CS or CS may be the only market maker in such investments. Past performance should not be taskimd issation or guarantee of future performance, and no representation or warranty, express or implieds made regarding future performance. Information, opinions and estimates contained in this report reflect a judgmenipatats date of publication by CS and are subject to change without notice. The price, value of and income from any of the separat financial instruments mentioned in this report can fall as well as rise. The value of securities and financial instruments mentioned in this report can fall as well as rise. subject to exchange rate fluctuation that may have a positive or adverse effect on the price or income of such serdinaires at instruments. Investors in securities such as ADR's, the values of which are influenced by currency volatility, effectively assume this risk. Structured securities are complex instruments, typically high degree of risk and are intended as each only to sophisticated investors who are capable of understanding and assuming the risks involved. The market value of any structured security may be affeating by neconomic, financial and political factors (including, but not limited to, spot and forward interest and exchange rates), time to maturity, market conditions and volatility, and the credit quality issuer or reference issuer. Any investor interested in purchasing a structured product should conduct their own investigational analysis of the product and consult with their own professional advisers as to the risks involved in making suchea Sorobaevestments discussed in this report may have a high level of volatility. High volatility investments may experience saddelarge falls in their value causing losses when that investment is realised. Those losses may equal your original investment. Indeed, in the case of some investments the potential losses may exceed the amount of initial inarestimentic circumences, you may be required to pay more money to support those losses. Income yields from investments may fluctuate and, in consequence, initial capital paid to make the investmentsed as part of that income yield. Some investments may not be readil realisable and it may be difficult to sell or realise those investments, similarly it may prove difficult for you teliathte information about the value, or risks, to which such an investment is exposed. This report may provide the addresses of contain hyperlinks to, websites. Except to the extent to which the report refers to website material of CS, CS hewedtare such site and takes no responsibility for the content contained therein. Such address or hyperlink (including addresslesser links to CS's own website material) is provided solely for your convenience and information and the content of any such website does not in any way form part of this document. Accessing such website or following such link through through through through the at your own risk. This report is issued and distributed in Europe (except Switzerland) by Credit Suisse Securities (Europe) Limited, One Cabot Square, London E14 4QJ, England, whitehisted in the United Kingdom by The Financial Seres Authority ("FSA"). This report is being distributed in Germany by Credit Suisse Securities (Europe) This report is being distributed States and Canada by Credit Suisse Securities (USA) LLC; in Switzerland by Credit Suisse AG: in Brazil\u00bbBanco de Investimentos Credit Suisse (Brasil) S.A or its affiliates; in Mexico by Banco Credit Suisse (México), S.Actionas elated to the securities mentioned in this report will only be effected in compliance with applicable regulation); in Japtay Credit Suisse Securities (Japan) Limited, Financial Instruments Firm, Dire General of Kanto Local Finance Bureau (Kinsho) No. 66, a member of Japan Securities Dealers Association, The Financial Futures Association of Japan, Japan Investmeets/Attributes Dealers Association, Type II Financial Instruments Firms Association; elsewhere in Asia/ Pacific by whichever of the following is the appropriately authorised entity in the relevant juri schediousuisse (Hong Kong) Limited, Credit Suisse Equities (Autist) a limited, Credit Suisse Securities (Thailand) Limited, Credit Suisse Securities (Malaysia) Sdn Bhd, Credit Suisse AG, Singapore Branch, Grestie Securities (India) Private Limited regulated by the Securities and Exchange Board of India (registrati Nos. INB230970637; INF230970637; INF010970631), having registered address at 9th Floor, Ceejay House & Bard & Worli, Mumbai 18, India, T-+91-22 6777 3777, Credit Suisse Securities (Europe) Limited, Seoul Branch, Credit Suisse Branch, PT Credit Suisse Securities Indonesia, Credit Suisse Securities (Philippines) Inc., and elsewhere in the world by the relevant authorised affiliate of the above. Research on Taiwanese securities produced by Coses AG, Taipi Securities Branch has been prepared by a registered Senior Business Person. Research provided to residents of Malaysia is authorised by the Head of Research for Credit Suitises \$4 alaysia) Sdn Bhd, to whom they should direct any queries on +603 2723 2020. This research may not conform to Canadian disclosure requirements. In jurisdictions where CS is not alreadveredist licensed to trade in securities, transactions will only be effected in accordance with applicable securities legislationic will vary from jurisdiction to jurisdiction and may require that the trade be made in accordance with applicable rexempting istration or licensing requirements. NorU.S. customers wishing to effect a transaction should contact a CS entitycin tocal jurisdiction unless governing law permits otherwise. U.S. customers wishing to effect a transaction should do so only by contacting a representative at Credit Suisse Securities (USA) LLC in the U.S. Please note that this creases originally prepared and issued by CS for distribution to their market professional and institutional investor customers. Recipients who are not market professional or institutional investoresstocs should seek the advice of their independent financial advistor to taking any investment decision based on this report or for any necessary explanation of its contents. This research to any vestments or services of a person outside of the UK or to other matters which are not regulated by the FSA or iespect of which the protections of the FSA for private customers and/or the UK compensation scheme may not be avaifable radials as to where this may be the case are available upon request in respect of this report. CS may provide variousesto/US municipal entities or obligated persons ("municipalities"), including suggesting individual transactions or trades and entering into such transactions. Any services CS provides to municipalities are not viewed as "advice" within theofigeating 975 of the Doderrank Wall Street Reform and Consumer Protection Act. CS is providing any such services and related information solely on an arm's length basis and not as an advisor fulthe municipality. In connection with the provision arm such services, there is no agreement, direct or indirect, between any municipality (including the officials, management, employeestbe applicant CS for CS to provide advice to the municipality. Municipalities should consult with their fiancial, accounting and legal advisors regarding any such services provided by CS. In addition, CS is not acting for intiliteat to compensation to solicit the municipality on behalf of an unaffiliated broker, dealer, municipal securities dealer, manicipal securities dealer, manicipality formerotionowith Municipal Financial Products, the issuance of municipal securities, or of an investment adviser to provide investment by services to or on behalf of the municipality. If this report is being distributed by a financial institution other than Credit Suisse AG, or its affiliates, that financial institution is solely responsible for distribution that institution should contact that institution to effect a transaction in the securities mentioned in this report or require further information. This report does not constitute investment advice by Credit@bisselfents of the distributing financial insibituat and neither Credit Suisse AG, its affiliates, and their respective officers, directors and employees accept any liability whatsoever for any direct orrational services from their use of this report or its content. Principal is not quaranteed Commission is the commission rate or the amount agreed with a customer when setting up an account or at any time after that.

Copyright © 2013 CREDIT SUISSE AG and/or its affiliates. All rights reserved.

Investment principal on bonds can be eroded depending on sale price or market price. In addition, there are bonds on which investment principal can be eroded due to changes in redemption amounts. Care is required when investing in such instruments.

When you purchase nonlisted Japanese fixed income sertities (Japanese government bonds, Japanese municipal bonds, Japanese government guaranteed bonds, Japanese corporateroral as a seller, you will be requested to pay the purchase price only.

PCG 2 22 13 v4.doc