

Electric Utilities

CA Investor Tour: CA Regulatory Uncertainty Remains; Resuming Coverage of SRE with a Neutral Rating and a \$58 PT

We hoped to return from our West Coast investor tour with increased visibility into the outlook for California regulation and, accordingly, get more constructive on the California utility stocks given that the shares are among the poorest performers in the sector YTD. However, we believe the residual regulatory risk in California will continue to overhang the shares. We are maintaining our Neutral ratings on PG&E and Edison International. We are resuming coverage of Sempra and lowering our rating to Neutral from Overweight (when we were restricted in February 2010).

Electric Utilities

Andrew Smith^{AC}
(1-713) 216-7681
andrew.i.smith@jpmorgan.com

Stefka Gerova, CFA
(1-212) 622-0549
stefka.g.gerova@jpmorgan.com
J.P. Morgan Securities LLC

- **PG&E trades at a material discount, but appears most at risk of the California utilities.** PG&E has been one of the poorest performing stocks in the sector YTD, falling almost 10%, versus a gain of 5.8% for the UTY. It trades at a 25% discount to its regulated peers on 2011E P/E. We believe this steep discount could make the shares attractive; however, we expect the discount on the shares to persist, because following our trip to the West Coast, we believe PG&E will continue to face regulatory pressure as it continues to address the fallout from its San Bruno pipeline explosion.
- **The long-term unregulated fundamentals for Edison International appear to be improving, but the California rate case should be the near-term EPS driver.** Edison Mission Energy, EIX's unregulated arm, and the pressure it is facing as a result of weak power markets and environmental compliance requirements was the focus of investors for much of last year. Our meeting with management led us to believe that trends for the business are improving. However, investors' focus in 2011 has increasingly been on the pending rate case at EIX's electric utility. We estimate a favorable or unfavorable outcome to the rate case could swing 2012E EPS by +/- \$0.20-0.25 per share versus our current estimate. We do not expect resolution of the rate case until likely early 2012, so we expect this uncertainty to overhang the stock.
- **Sempra businesses performing well, but California regulatory uncertainty likely keeps the stock from working in the near term.** Sempra has restructured itself over the past ~12 months, as it divested its commodity trading JV, launched a share buyback and materially boosted its dividend. Its remaining businesses should provide a more stable EPS profile and drive attractive EPS growth; however, like EIX, it also has rate cases pending at the California Public Utility Commission (CPUC). We expect uncertainty about the outcome of its pending rate cases to weigh on the stock in the near term; accordingly, we are resuming coverage of the company with a Neutral rating.

Equity Ratings and Price Targets

Company	Symbol	Mkt Cap (\$ mn)	Price(\$)	Rating		Price Target	
				Cur	Prev	Cur	Prev
Edison International	EIX	12,742.47	39.11	N	n/c	37.00	38.00
PG&E Corp.	PCG	16,849.23	43.12	N	n/c	50.00	54.00
Sempra Energy	SRE	14,257.23	54.21	N	OW	58.00	63.00

Source: Company data, Bloomberg, J.P. Morgan estimates. n/c = no change. All prices as of 01 Jun 11.

See page 15 for analyst certification and important disclosures.

J.P. Morgan does and seeks to do business with companies covered in its research reports. As a result, investors should be aware that the firm may have a conflict of interest that could affect the objectivity of this report. Investors should consider this report as only a single factor in making their investment decision.

- **Resuming coverage of Sempra Energy.** We were restricted on Sempra Energy (SRE) due to J.P. Morgan's involvement in the transaction announced on 16 February 2010. Now that the transaction is complete, we are resuming coverage of Sempra Energy with a Neutral rating (previously Overweight) and a December 2011 price target of \$58 (previously a December 2010 price target of \$63).

Neutral

Company Data	
Price (\$)	39.11
Date Of Price	01 Jun 11
52-week Range (\$)	40.15 - 31.06
Mkt Cap (\$ mn)	12,742.47
Fiscal Year End	Dec
Shares O/S (mn)	326
Price Target (\$)	37.00
Price Target End Date	31 Dec 11

Edison International (EIX;EIX US)

	2010A	2011E (New)	2011E (Old)	2012E (New)	2012E (Old)
EPS Reported (\$)					
Q1 (Mar)	0.82	0.62A	0.65A		
Q2 (Jun)	0.62				
Q3 (Sep)	1.46				
Q4 (Dec)	0.58				
FY	3.48	2.75	3.00	2.75	3.20
Bloomberg EPS FY (\$)	3.48	2.81		2.69	
P/E FY	11.2	14.2	13.0	14.2	12.2

Source: Company data, Bloomberg, J.P. Morgan estimates. Note: Official estimates rounded to the nearest \$0.05 per share. 'Bloomberg g' above denotes Bloomberg g consensus estimates.

Neutral

Company Data	
Price (\$)	43.12
Date Of Price	01 Jun 11
52-week Range (\$)	48.63 - 39.87
Mkt Cap (\$ mn)	16,849.23
Fiscal Year End	Dec
Shares O/S (mn)	391
Price Target (\$)	50.00
Price Target End Date	31 Dec 11

PG&E Corp. (PCG;PCG US)

	2010A	2011E (New)	2011E (Old)	2012E (New)	2012E (Old)
EPS Reported (\$)					
Q1 (Mar)	0.79	0.70A	0.80A		
Q2 (Jun)	0.91				
Q3 (Sep)	1.00				
Q4 (Dec)	0.70				
FY	3.42	3.45	3.80	3.70	4.00
Bloomberg EPS FY (\$)	3.43	3.57		3.75	
P/E FY	12.6	12.5	11.3	11.7	10.8

Source: Company data, Bloomberg, J.P. Morgan estimates. Note: Official estimates rounded to the nearest \$0.05 per share. 'Bloomberg g' above denotes Bloomberg g consensus estimates.

Neutral

Company Data	
Price (\$)	54.21
Date Of Price	01 Jun 11
52-week Range (\$)	55.97 - 44.40
Mkt Cap (\$ bn)	14.26
Fiscal Year End	Dec
Shares O/S (mn)	263
Price Target (\$)	58.00
Price Target End Date	31 Dec 11

Sempra Energy (SRE;SRE US)

	2010A	2011E	2012E
EPS (\$)			
Q1 (Mar)	0.80	1.07A	
Q2 (Jun)	0.89		
Q3 (Sep)	1.06		
Q4 (Dec)	1.18		
FY	3.61	4.15	4.45
P/E FY	15.0	13.1	12.2

Source: Company data, Bloomberg, J.P. Morgan estimates. Note: Official estimates rounded to the nearest \$0.05 per share. 'Bloomberg' above denotes Bloomberg consensus estimates.

Conclusions

PG&E

PG&E's steep discount likely to persist

We embarked on our West Coast investor tour hoping to come away with a more constructive view on California regulation, especially for PCG, given that it trades at about a 25% discount to its regulated peers on 2011E P/E (and EPS estimates that already reflect fallout from costs associated with addressing increased compliance and inspection efforts at its pipeline transmission business following the explosion at one of its pipelines in San Bruno). Our meeting at the CPUC leads us to believe that the CPUC overall may be more constructive than we initially thought following

Governor Brown's appointment of three new CPUC Commissioners earlier this year. However, we believe PG&E faces increased scrutiny as a result of the ongoing focus on its pipeline operations following the San Bruno explosion.

GRC resolved favorably

One factor that makes PG&E more attractive versus its California peers, in our opinion, is that its rate case settlement was recently approved by the CPUC, so outside of the San Bruno issues, the company does not have to seek rate relief from regulators in the near term. We believe the settlement of its rate case was constructive, but note that the settlement was brokered before the three new commissioners were appointed to the CPUC.

San Bruno problems remain

We believe the company will continue to face cost pressures from its San Bruno explosion as it gathers and documents records on pipeline pressure testing, types of pipelines in the ground, as well as maintenance efforts on its pipeline system, etc. The company already lowered its 2011 outlook by 5% (\$0.20 per share) to reflect costs related to the San Bruno explosion as well as higher costs elsewhere in the business. The company is seeking a ruling from the CPUC that will allow it to start memorandum accounting (and set the stage for potential recovery) for its San Bruno-related costs, but it is unclear to us if/when the CPUC might adopt such a measure. We believe there is a significant chance that the company will have to absorb ongoing costs from its San Bruno explosion in 2012.

Pipeline inspection process just beginning – could be expensive

It appears as though the CPUC may only accept hydrostatic testing or pipeline replacement as acceptable types of remediation for pipelines that do not have sufficient documentation to ensure their safe operation. PG&E has identified 152 miles of pipelines that it initially intends to hydrostatic test, but notes that the absolute length of pipelines involved in the initial round of testing is closer to 200 miles because of the configuration of the system (effectively it has to look at 200 miles of pipelines to capture the 152 miles). The company has indicated that it expects to incur \$350-550 million of pipeline inspection/replacement costs. We believe PG&E will be able to recover the capital outlay for this program, although we believe its ability to earn a return on its efforts is likely limited. It is also unclear when/how the CPUC may authorize recovery. Accordingly, we believe the company is facing some risk (although likely unavoidable) as it is spending money on its pipeline system with no clear path to recovering its investment.

New CEO likely a short-term catalyst for the stock

PG&E reiterated that it plans to announce a new CEO in a matter of weeks (company emphasis). The prior CEO of PG&E departed in the wake of the San Bruno explosion. We believe appointment of a new CEO will likely be a short-term catalyst for the stock, as a new CEO offers the opportunity to begin to repair regulatory, political, and customer relationships as well as target a strategy toward addressing perceived and/or real operational problems at PG&E's gas pipeline business. However, we believe these steps take time, so following appointment of a new CEO, we expect the ongoing resolution of the residual pipeline explosion issues to temper the stock reaction.

NTSB review not due until the fall

For example, the NTSB's review of the San Bruno explosion is not due until the fall, and PG&E indicated to us that the CPUC might launch an additional investigation depending on the findings of the NTSB. We believe the CPUC may be inclined to launch an investigation, because in our meeting at the Commission, it was highlighted that the CPUC is facing significant public scrutiny in the wake of the San Bruno explosion as it is entrusted with overseeing pipeline safety. Accordingly, we believe it is difficult to fault the CPUC in the court of public opinion if it launches an additional investigation, but easy to raise questions about CPUC oversight if it chooses to not advance an additional investigation. We believe this could result in resolution of the San Bruno issues taking longer than expected.

New CEO might rebase EPS expectations

One other factor that we believe could weigh on the shares following the announcement of a new CEO is that the new CEO may take the opportunity to rebase near-term EPS expectations as well as growth aspirations for the company. We have no way of knowing if a new CEO might take this step, but we believe such a move could serve two purposes : 1) gain some political and customer goodwill on a tempered outlook and 2) set a more readily achievable goals for new leadership.

2012 dividend hike likely modest, if at all

The company recently told investors that it will not raise its dividend in 2011. We believe this step was not only to preserve cash in the face of uncertainty, but also to send a signal to the public, regulators, and lawmakers that the company is focused on preserving its resources to address its pipeline business and any shortcomings. Given the scrutiny on the company, it is unclear if the company will be in a position to raise the dividend in 2012. We believe a dividend hike in 2012, if any, will be very modest given the current political/regulatory/customer climate in California.

Cutting our 2011E, 2012E EPS and December 2011 price target

We are cutting our 2011E EPS to \$3.45 from \$3.80 and our 2012E EPS to \$3.70 from \$4.00 to reflect the ongoing costs of the San Bruno explosion. We are also cutting our December 2011 price target to \$50 from \$54 to reflect our reduced EPS outlook. We discuss our price target derivation later in this report.

Edison International

We expect EIX's outstanding rate case to result in the shares performing in line with peers. Much of the company's potential EPS variability stems from its unregulated business, Edison Mission Energy (EME), for which fundamentals appear to be improving; however, the company has a rate case pending at its electric utility that could have a material impact on 2012 earnings, and we expect the uncertainty to be an overhang on the shares.

Long-term unregulated fundamentals improving

Management discussed at length its thought process around the value proposition for its unregulated business, highlighting that ~18 months ago, when the shares were likely reflecting zero, or negative, equity value for EME, management outlined several factors that it focused on as value drivers for the business and its belief that those drivers were likely to improve.

Power demand

One factor the company highlighted was power demand, especially driven by economic recovery. Management noted that the supply/demand outlook has improved since it initially outlined its strategic analysis framework.

Capacity prices

Capacity prices are a key driver of value for many power plants, and EIX management expressed over the past several quarters that it expected capacity prices to improve. The most recent PJM capacity auction results were released a few weeks ago, and RTO capacity prices, which impact a significant portion of EME's capacity, increased almost fivefold.

Environmental regulations

One factor that we consistently heard troubled investors was EME's ability to invest in required environmental controls on its power plants and earn an appropriate return on investment. EME entered into an agreement with Illinois to control emissions at its fleet before the current proposed EPA rules were announced. Accordingly, it was not clear if EME was investing in environmental retrofits that might simply increase its costs (capital and operating) versus competing power plants, which would have put EME at a significant disadvantage. Subsequently, the EPA issued proposed emissions limits that, according to EIX management, "could not have been written better" from the standpoint of putting power plants on equal competitive footing in terms of environmental emissions limits. Management also noted that it expects the work it is doing to retrofit its plants will meet or exceed EPA requirements.

Environmental compliance costs/capability

Not only does EME appear to be able to meet EPA emissions requirements, it also appears that it may be able to meet the rules with lower costs and greater flexibility. When EME's environmental retrofit program was initially envisioned following its agreement with Illinois, we believe wet scrubbing was generally viewed as the only viable technology to meet emissions limits. However, the company has worked diligently to test and evaluate dry sorbent injection (DSI) technology at its plants. It appears that DSI technology can meet much of its environmental needs. We note that DSI is less capital intensive than wet scrubbing, albeit at a somewhat higher variable cost. We believe this has improved the economics of its environmental compliance program.

Natural gas prices

One factor that remains essentially unchanged over the past 18 months since Edison started talking to investors about its strategic framework for evaluating EME is natural gas prices, although we note that prices have not weakened further.

Rail/Coal remains mixed

The other factor that remains undetermined at EME is how rail and coal costs may impact the company. EME faces expiration of its existing rail contract with Union Pacific and it is unclear where this contract will price going forward, although we assume EME's rail costs increase in our forecast. It is unclear how coal costs may impact EME.

Studying how best to address emissions requirements at Homer City

Edison management indicated that it continues to evaluate how best to address environmental compliance requirements at Homer City, its Pennsylvania coal plant,

but noted that its lease agreement with GE includes a mechanism whereby the capital for installing environmental controls is financed by GE through terms of the lease.

EIX may refinance EME

EIX management indicated to us that one initiative it is undertaking is consideration of refinancing its maturities at EME given current high yield debt market conditions. We believe refinancing EME could be a positive catalyst for the stock, because pushing out maturities gives EME even more time to benefit from market recovery and implement its environmental strategies, etc. We expect refinancing efforts to take several months.

Rate case a key 2012 earnings driver, but not likely resolved until early 2012

EIX has a pending rate case at its Southern California Electric regulated electric utility subsidiary. The company has received a response from the Division of Ratepayer Advocates (DRA), which, as par for the course, recommended substantially less rate relief than the utility requested. EIX management indicated to us that nothing in the DRA filing surprised them and that much of the DRA disallowances were as expected and typical for a DRA filing. Intervenor filings were due yesterday, and we expect these filings to also recommend far less rate relief than the utility is seeking, as is typical.

Ultimately, the CPUC is not likely to rule on the case until early next year (with rates retroactive to January 1st). It is unclear how the CPUC may rule in the case, especially given that three of the five commissioners were appointed earlier this year. We assume that EIX is granted 45% of its rate request, consistent with the outcome in its last rate case, but note that a better or worse outcome in the rate case could swing 2012E EPS +/- \$0.20-0.25. Accordingly, we expect the uncertain outcome of the rate case to be an overhang on the shares.

Cutting estimates and price target

We are cutting our 2011E and 2012E EPS to \$2.75 for both years from \$3.00 and \$3.20, respectively, primarily to reflect lower expected results at the company's unregulated businesses which are under pressure in the near term despite long-term fundamentals appearing to start to improve. We are also cutting our December 2011 price target to \$37 from \$38, which reflects lower EPS, offset partly by expansion of the group multiple. We discuss our price target derivation later in this report.

Sempra Energy

We were restricted on Sempra Energy (SRE) due to J.P. Morgan's involvement in the transaction announced on 16 February 2010. Now that the transaction is complete, we are resuming coverage of Sempra Energy with a Neutral rating (previously Overweight) and a \$58 December 2011 price target (previously a December 2010 price target of \$63).

Sale of commodity business streamlines the business

Sempra exited its commodity trading JV with RBS last year. The business contributed significant EPS, but also potential EPS volatility; accordingly, we believe it weighed on Sempra's valuation. Following the sale of the business, the company redeployed proceeds from the sale to launch a \$500 million share buyback in September 2010 as well as boosted its dividend by 23% in February of this year.

We believe these steps by management reflect the increased stability for the remaining Sempra businesses.

Regulated utilities remain strong

Sempra operates two California regulated utilities: San Diego Gas & Electric and Southern California Gas. Both businesses appear to be operating well and have a number of investment opportunities. For example, the company expects to invest heavily to meet California's 33% renewable energy standard that was recently enacted into law.

Pipelines appear to be in better shape than PG&E's pipelines

Sempra was prompted to review its pipeline records (records are required to validate pressure testing or pipeline conditions to ensure safe operation of the pipeline) in the wake of the San Bruno explosion, and it appears to have fared better than PG&E. The company only incurred a cost of about \$1.5 million versus the \$50 million cost incurred by PG&E to review its records, which to us implies that Sempra's record keeping likely is in better condition. It is unclear to us what impact the PG&E San Bruno explosion may have on requirements for Sempra to test/upgrade its pipeline system, but given that its initial results appear to compare favorably versus PG&E, we believe Sempra faces less risk from pipeline remediation requirements.

Rate case outcomes should be a key driver for the utilities

Sempra has pending rate cases for gas and electric rates at San Diego Gas & Electric as well as a pending gas rate case at Southern California Gas. Like EIX, we expect the cases to likely get resolved in early 2012, with rates retroactive to the first of the year. It is unclear how the cases will be resolved, as it is early in the process, but our base case EPS estimates assume a similar level of rate relief at each of the utilities as they were granted in the last round of rate cases, which implies the company will get 66% of its requested \$237 million rate increase at the electric utility, 21% of its requested \$39 million rate increase at San Diego Gas & Electric's gas utility and 42% of its \$308 million rate increase request at Southern California Gas. We expect the outcome of the rate cases to have a significant impact on 2012E EPS.

Sempra Generation has ample renewable energy investment opportunities

We toured the Copper Mountain solar facility as part of our West Coast tour. The plant sells its output, along with the output of the neighboring El Dorado solar farm, to PG&E under a 20-year contract. We expect the company to develop a number of additional solar projects to meet increasing renewable energy requirements. For example, the company plans to develop 250 MWs of new solar generation, which is already sold under long-term contract, between now and 2013. In addition to solar, the company also owns 50% of a 200 MW wind farm in operation with BP and is developing an additional 125 MW in a 50/50 partnership with BP that sells its output under long-term contract. We expect the company to pursue additional renewable investments, although we do not include incremental unannounced projects in our analysis.

Attractive international acquisition recently completed

Sempra recently completed an attractive acquisition at its pipeline and storage business, in our view, whereby it is increasing its stake in Latin American utilities it already owned. We believe the transaction illustrates Sempra's strategic focus, as a significant portion of the transaction was funded by cash trapped in-country and the transaction is expected to be about \$0.22 accretive to 2012E EPS, or ~5%.

Furthermore, Sempra is simply expanding ownership of businesses where it already has a foothold, so we believe it was a relatively low risk undertaking.

LNG

Sempra's LNG business likely has the weakest outlook of its subsidiaries, as LNG imports in the US have fallen in the face of lower US gas prices, followed by an increased international appetite for LNG following the Japanese earthquake which curtailed the country's nuclear power production. It does not appear that the LNG business will improve any time soon. However, we note that Sempra's contracts at its LNG terminals largely insulate it from vagaries of the LNG market as its contracts result in Sempra being paid whether LNG cargoes are delivered through its terminals or not.

Neutral rating a function of California uncertainty

We downgraded the two other California utilities, PG&E and Edison International, to Neutral from Overweight earlier this year following the initial appointments to the CPUC by Governor Brown. Our concern was, and is, that the CPUC may treat the California utilities less favorably than they have been treated in the past. Accordingly, we are resuming coverage of Sempra with a Neutral rating (previously Overweight). We continue to expect strong performance from the balance of the company, and the California regulation may remain constructive; however, the uncertainty around California still prompts us to move to the sidelines.

Investment Thesis

PG&E

Our Neutral rating is prompted by the expected overhang from ongoing pressure at PG&E following the explosion at its San Bruno pipeline last year. The company recently resolved a rate case at its utility, so it should not be back in front of regulators with a rate increase request for some time. The shares trade at a significant discount to the peer group based on 2011E P/E; however, the company is incurring significant costs to respond to inquiries following the pipeline explosion. It is unclear when the pipeline-related costs will ease and/or if/when the company will be allowed to recover costs related to its pipeline remediation efforts. Accordingly, we remain on the sidelines.

Edison International

Our Neutral rating is the result of uncertainty about California regulation, especially as Edison has a significant rate case pending before the CPUC. Three new commissioners were appointed to the CPUC earlier this year, and it remains unclear how constructively they may treat the utilities. Following our trip to the West Coast, we believe the CPUC may be balanced in its treatment of the utilities, but this remains uncertain. We continue to believe that Edison's unregulated business, Edison Mission Energy, can contribute material equity value, as long-term fundamentals for this business appear to be improving, but in the short term we expect the regulatory environment in California to be the primary driver for the stock.

Sempra Energy

Our Neutral rating is the result of uncertainty about California regulation, especially as Sempra has three rate cases pending before the CPUC. The company eliminated its largest source of potential EPS variability with the sale of its commodity trading JV, and it redeployed the proceeds into a share buyback and dividend hike, which we believe illustrates management's view of the more stable nature of the remaining businesses. However, we expect the outstanding rate cases to remain an overhang on the shares, thus our Neutral rating.

Valuation

We present our valuation and rating analysis in Table 1.

Table 1: Valuation and Rating Analysis

Tkr	JPM Rtg	2011E EPS	Group P/E	Prem/ (Disc)	Justified '11E P/E	Price Target	Prior PT	Price Target Rationale
EIX	N	2.75	14.0x	-5%	13.3x	\$37	\$38	Our modest valuation discount reflects Edison's business mix and concerns over California's regulatory regime. While EIX derives ~70% of its EPS from its utility, which benefits from attractive investment opportunities that drive above-average rate base and EPS growth, we believe this is partly offset by regulatory headwinds in California. Also partly offsetting the utility's growth trajectory is discounted valuation on the balance of Edison's merchant operations to account for their inherent volatility.
PCG	N	3.45	15.3x	-5%	14.5x	\$50	\$54	Our discounted peer group multiple reflects regulatory uncertainty resulting from recent changes at the PUC, which we expect to weigh on the stock, even though California has traditionally offered some of the most constructive regulation in the US. We expect the company to also face ongoing pressure from continued remediation efforts at its natural gas business following the explosion at its San Bruno pipeline.
SRE	N	4.15	14.0x	0%	14.0x	\$58	\$63	We assign an in-line valuation to derive our price target for Sempra. We believe Sempra's California utilities are above average versus those of its regulated peers; however, we believe investors value some of the company's unregulated businesses, such as its LNG and generation operations at a discount. Furthermore, we believe near-term uncertainty around regulatory trends in California given the appointment of three new Commissioners earlier this year continues to weigh on the utility's valuation.

Source: J.P. Morgan. * We use the Regulated Utilities group P/E for PCG and the Hybrid group multiple for EIX and SRE.

Risks to Ratings and Price Targets

Risks to our ratings and price targets are shown in Table 2.

Table 2: Risks to Ratings and Price Targets

Tkr	Risks to Our Rating
EIX	Our Neutral rating could be wrong if EIX receives a more or a less favorable rate case outcome than we expect, its pipeline of investment at the utility falters or accelerates, electricity demand falls/improves sharply or new power plant capacity is added to the system, it is unable to meet its IL environmental limits with its current plan, or commodity prices rise or fall sharply.
PCG	There could be upside to our Neutral rating if regulatory uncertainty in California dissipates following the recent changes in the makeup of the CPUC. There could be upside or downside to our rating if PCG's cost for remedial efforts at its pipelines following the San Bruno explosion is higher or lower than expected and/or its regulatory recovery is better or worse than anticipated, its pipeline of investment opportunities is better or weaker than we expect, or PCG is not able to maintain its cost structure.
SRE	Our Neutral rating could be wrong if California regulation is more or less constructive than we expect. Our Neutral rating could also be wrong if the recently appointed Commissioners in California somehow signal to investors that the Commission will continue to treat the utilities favorably. Our rating could also be wrong if Sempra's unregulated businesses are more or less successful in redeploying capital than we expect.

Source: J.P. Morgan.

Edison International: Summary of Financials

Income Statement - Annual	FY10A	FY11E	FY12E	FY13E	Income Statement - Quarterly	1Q11A	2Q11E	3Q11E	4Q11E
Sales	12,409	12,768	13,047		- Sales	-	-	-	-
COGS	4,102	4,313	4,323		- COGS	-	-	-	-
D&A	1,522	1,700	1,790		- D&A	-	-	-	-
Operations and maintenance	4,612	4,843	5,033		- Operations and maintenance	-	-	-	-
Other expenses	-	-	-		- Other expenses	-	-	-	-
Total operating expenses	10,283	10,855	11,146		- Total operating expenses	-	-	-	-
Other income / (expense)	204	178	178		- Other income / (expense)	-	-	-	-
EBIT	2,330	2,091	2,079		- EBIT	-	-	-	-
EBITDA	3,852	3,791	3,869		- EBITDA	-	-	-	-
Interest expense	724	788	812		- Interest expense	-	-	-	-
Income tax provision	354	395	367		- Income tax provision	-	-	-	-
Tax rate	22.0%	30.3%	29.0%		- Tax rate	-	-	-	-
Discontinued operations and other	4	0	0		- Discontinued operations and other	-	-	-	-
Preferred dividends	-	-	-		- Preferred dividends	-	-	-	-
Net income	1,256	908	900		- Net income	-	-	-	-
Total non-recurring items	112	0	0		- Total non-recurring items	-	-	-	-
Net income (Recurring)	1,144	908	900		- Net income (Recurring)	-	-	-	-
Diluted shares outstanding	329	329	329		- Diluted shares outstanding	-	-	-	-
Diluted EPS	3.48	2.75	2.75		- Diluted EPS	-	-	-	-
DPS (\$)	1.26	1.33	1.39		- DPS (\$)	-	-	-	-
Payout ratio	36.0%	47.7%	50.5%		- Payout ratio	-	-	-	-
Balance Sheet and Cash Flow Data	FY10A	FY11E	FY12E	FY13E	Ratio Analysis	FY10A	FY11E	FY12E	FY13E
Cash and cash equivalents	1,456	67	67		- Sales growth	0.4%	2.9%	2.2%	-
Current assets	2,966	2,966	2,966		- EBITDA growth	31.6%	(1.6%)	2.1%	-
PP&E	30,184	33,009	34,700		- EBIT growth	54.4%	(10.3%)	(0.6%)	-
Non-current assets	10,924	11,024	11,124		- Net income (recurring) growth	7.5%	(20.7%)	(0.8%)	-
Total assets	45,530	47,066	48,857		- COGS growth	(3.9%)	5.1%	0.2%	-
Current liabilities	12,371	12,619	12,119		- Total operating expenses growth	(6.2%)	5.6%	2.7%	-
Long-term Debt	907	907	907		- Diluted EPS growth	6.9%	(20.9%)	0.0%	-
Preferred stock	17,713	17,713	17,713		- Gross margin	66.9%	66.2%	66.9%	-
Other non-current liabilities	4	4	4		- Operating margin	18.8%	16.4%	15.9%	-
Common equity	10,583	11,058	11,503		- Debt / Capital (book)	-	-	-	-
Total liabilities & equity	45,530	47,066	48,857		- Times interest earned	3.2	2.7	2.6	-
Net income	1,256	908	900		- FFO / Interest	7.0	4.5	4.5	-
D&A	1,522	1,700	1,790		- FFO / Debt	40.3%	25.8%	24.2%	-
Change in working capital	(852)	0	0		- ROE	10.8%	8.2%	7.8%	-
Change in other assets	3,022	1,818	1,908		- Return on invested capital (ROIC)	3.6%	2.7%	2.7%	-
Net operating cash flow	3,477	2,725	2,808						
Cash flow from investing activities	(4,814)	(4,743)	(3,699)						
Net common equity issued/(repurchased)	(16)	0	0						
Net debt issued/(repurchased)	1,570	1,061	1,346						
Common dividends paid	411	433	454						
Other financing activity	(90)	0	0						
Cash flow from financing activities	1,053	629	891						
Increase/(decrease) in cash	(284)	(1,389)	0						
Cash at beginning of the period	1,673	1,389	0						
Cash at end of the period	1,389	0	0						

Source: Company reports and J.P. Morgan estimates.

Note: \$ in millions (except per-share data). Fiscal year ends Dec

PG&E Corp.: Summary of Financials

Income Statement - Annual	FY10A	FY11E	FY12E	FY13E	Income Statement - Quarterly	1Q11A	2Q11E	3Q11E	4Q11E
Sales	13,841	14,859	15,385	-	Sales	-	-	-	-
COGS	5,188	5,281	5,375	-	COGS	-	-	-	-
D&A	1,905	1,979	2,051	-	D&A	-	-	-	-
Operations and maintenance	4,439	4,581	4,716	-	Operations and maintenance	-	-	-	-
Other expenses	-	-	-	-	Other expenses	-	-	-	-
Total operating expenses	11,532	11,842	12,142	-	Total operating expenses	-	-	-	-
Other income / (expense)	27	13	13	-	Other income / (expense)	-	-	-	-
EBIT	2,337	3,031	3,256	-	EBIT	-	-	-	-
EBITDA	4,241	5,010	5,307	-	EBITDA	-	-	-	-
Interest expense	691	677	687	-	Interest expense	-	-	-	-
Income tax provision	547	885	966	-	Income tax provision	-	-	-	-
Tax rate	33.2%	37.6%	37.6%	-	Tax rate	-	-	-	-
Discontinued operations and other	235	0	0	-	Discontinued operations and other	-	-	-	-
Preferred dividends	-	-	-	-	Preferred dividends	-	-	-	-
Net income	1,334	1,469	1,603	-	Net income	-	-	-	-
Total non-recurring items	0	0	0	-	Total non-recurring items	-	-	-	-
Net income (Recurring)	1,334	1,469	1,603	-	Net income (Recurring)	-	-	-	-
Diluted shares outstanding	392	410	419	-	Diluted shares outstanding	-	-	-	-
Diluted EPS	3.42	3.45	3.70	-	Diluted EPS	-	-	-	-
DPS (\$)	1.78	1.82	1.82	-	DPS (\$)	-	-	-	-
Payout ratio	52.9%	51.2%	47.9%	-	Payout ratio	-	-	-	-
Balance Sheet and Cash Flow Data	FY10A	FY11E	FY12E	FY13E	Ratio Analysis	FY10A	FY11E	FY12E	FY13E
Cash and cash equivalents	854	563	1,233	-	Sales growth	3.3%	7.4%	3.5%	-
Current assets	4,688	4,688	4,688	-	EBITDA growth	3.0%	18.1%	5.9%	-
PP&E	31,449	33,245	33,593	-	EBIT growth	(1.2%)	29.7%	7.4%	-
Non-current assets	9,034	9,034	9,034	-	Net income (recurring) growth	8.1%	10.1%	9.1%	-
Total assets	46,025	47,530	48,548	-	COGS growth	3.7%	1.8%	1.8%	-
Current liabilities	6,376	6,511	5,119	-	Total operating expenses growth	3.9%	2.7%	2.5%	-
Long-term Debt	11,715	12,415	13,615	-	Diluted EPS growth	10.9%	0.9%	7.2%	-
Preferred stock	252	252	252	-	Gross margin	62.5%	64.5%	65.1%	-
Other non-current liabilities	16,400	15,977	15,977	-	Operating margin	16.9%	20.4%	21.2%	-
Common equity	11,282	12,374	13,585	-	Debt / Capital (book)	52.1%	51.5%	49.6%	-
Total liabilities & equity	46,025	47,530	48,548	-	Times interest earned	3.4	4.5	4.7	-
Net income	1,334	1,469	1,603	-	FFO / Interest	5.8	6.1	6.3	-
D&A	1,905	1,979	2,051	-	FFO / Debt	31.9%	30.7%	31.8%	-
Change in working capital	(117)	0	0	-	ROE	11.8%	11.9%	11.8%	-
Change in other assets	169	0	0	-	Return on invested capital (ROIC)	4.1%	4.4%	4.8%	-
Net operating cash flow	3,206	3,435	3,640	-					
Cash flow from investing activities	(3,857)	(3,775)	(2,400)	-					
Net common equity issued/(repurchased)	303	400	400	-					
Net debt issued/(repurchased)	1,248	816	231	-					
Common dividends paid	(662)	(763)	(778)	-					
Other financing activity	(474)	(404)	(423)	-					
Cash flow from financing activities	415	49	(571)	-					
Increase/(decrease) in cash	(236)	(291)	670	-					
Cash at beginning of the period	527	0	0	-					
Cash at end of the period	291	(291)	670	-					

Source: Company reports and J.P. Morgan estimates.

Note: \$ in millions (except per-share data). Fiscal year ends Dec

Sempra Energy: Summary of Financials

Income Statement - Annual	FY10A	FY11E	FY12E	FY13E	Income Statement - Quarterly	1Q11A	2Q11E	3Q11E	4Q11E
Sales	9,003	9,162	9,611	-	Sales	-	-	-	-
COGS	3,783	3,487	3,601	-	COGS	-	-	-	-
D&A	867	977	1,082	-	D&A	-	-	-	-
Operations and maintenance	2,979	2,883	2,924	-	Operations and maintenance	-	-	-	-
Other expenses	-	-	-	-	Other expenses	-	-	-	-
Total operating expenses	7,629	7,348	7,607	-	Total operating expenses	-	-	-	-
Other income / (expense)	189	124	130	-	Other income / (expense)	-	-	-	-
EBIT	1,563	1,938	2,134	-	EBIT	-	-	-	-
EBITDA	2,430	2,916	3,217	-	EBITDA	-	-	-	-
Interest expense	430	435	514	-	Interest expense	-	-	-	-
Income tax provision	102	496	535	-	Income tax provision	-	-	-	-
Tax rate	9.0%	33.0%	33.0%	-	Tax rate	-	-	-	-
Discontinued operations and other	449	0	0	-	Discontinued operations and other	-	-	-	-
Preferred dividends	-	-	-	-	Preferred dividends	-	-	-	-
Net income	896	1,007	1,086	-	Net income	-	-	-	-
Total non-recurring items	0	0	0	-	Total non-recurring items	-	-	-	-
Net income (Recurring)	896	1,007	1,086	-	Net income (Recurring)	-	-	-	-
Diluted shares outstanding	248	243	244	-	Diluted shares outstanding	-	-	-	-
Diluted EPS	3.61	4.15	4.45	-	Diluted EPS	-	-	-	-
DPS (\$)	1.56	1.16	1.16	1.16	DPS (\$)	-	-	-	-
Payout ratio	42.7%	45.7%	46.9%	-	Payout ratio	-	-	-	-
Balance Sheet and Cash Flow Data	FY10A	FY11E	FY12E	FY13E	Ratio Analysis	FY10A	FY11E	FY12E	FY13E
Cash and cash equivalents	912	0	0	-	Sales growth	11.1%	1.8%	4.9%	-
Current assets	2,441	2,441	2,441	-	EBITDA growth	6.1%	20.0%	10.3%	-
PP&E	19,876	22,714	25,086	-	EBIT growth	3.1%	24.0%	10.1%	-
Non-current assets	7,054	6,054	6,054	-	Net income (recurring) growth	(19.8%)	12.4%	7.8%	-
Total assets	30,283	31,209	33,581	-	COGS growth	16.1%	(7.8%)	3.3%	-
Current liabilities	3,786	4,190	5,905	-	Total operating expenses growth	12.1%	(3.7%)	3.5%	-
Long-term Debt	9,329	9,329	9,329	-	Diluted EPS growth	(20.0%)	14.8%	7.2%	-
Preferred stock	-	-	-	-	Gross margin	58.0%	61.9%	62.5%	-
Other non-current liabilities	8,141	8,240	8,070	-	Operating margin	17.4%	21.2%	22.2%	-
Common equity	9,027	9,449	10,277	-	Debt / Capital (book)	50.5%	50.6%	52.2%	-
Total liabilities & equity	30,283	31,209	33,581	-	Times interest earned	3.6	4.5	4.2	-
Net income	896	1,007	1,086	-	FFO / Interest	5.8	7.9	5.2	-
D&A	867	977	1,082	-	FFO / Debt	26.1%	34.2%	23.2%	-
Change in working capital	107	0	0	-	ROE	9.9%	10.7%	10.6%	-
Change in other assets	156	1,000	0	-	Return on invested capital (ROIC)	4.5%	4.7%	4.9%	-
Net operating cash flow	2,310	3,984	2,168	-					
Cash flow from investing activities	(1,283)	(3,815)	(3,455)	-					
Net common equity issued/(repurchased)	(462)	(125)	250	-					
Net debt issued/(repurchased)	220	503	1,545	-					
Common dividends paid	(364)	(460)	(508)	-					
Other financing activity	(31)	0	0	-					
Cash flow from financing activities	(637)	(81)	1,287	-					
Increase/(decrease) in cash	390	88	0	-					
Cash at beginning of the period	110	912	0	-					
Cash at end of the period	500	1,000	0	-					

Source: Company reports and J.P. Morgan estimates.

Note: \$ in millions (except per-share data). Fiscal year ends Dec

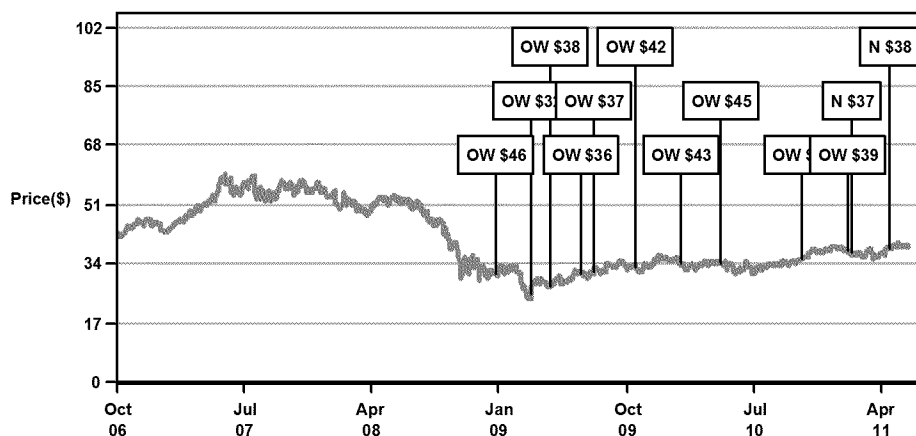
Analyst Certification:

The research analyst(s) denoted by an “AC” on the cover of this report certifies (or, where multiple research analysts are primarily responsible for this report, the research analyst denoted by an “AC” on the cover or within the document individually certifies, with respect to each security or issuer that the research analyst covers in this research) that: (1) all of the views expressed in this report accurately reflect his or her personal views about any and all of the subject securities or issuers; and (2) no part of any of the research analyst’s compensation was, is, or will be directly or indirectly related to the specific recommendations or views expressed by the research analyst(s) in this report.

Important Disclosures

- **Lead or Co-manager:** J.P. Morgan acted as lead or co-manager in a public offering of equity and/or debt securities for Edison International, PG&E Corp., Sempra Energy within the past 12 months.
- **Client of the Firm:** Edison International is or was in the past 12 months a client of JPM; during the past 12 months, JPM provided to the company investment banking services, non-investment banking securities-related service and non-securities-related services. PG&E Corp. is or was in the past 12 months a client of JPM; during the past 12 months, JPM provided to the company investment banking services, non-investment banking securities-related service and non-securities-related services. Sempra Energy is or was in the past 12 months a client of JPM; during the past 12 months, JPM provided to the company investment banking services, non-investment banking securities-related service and non-securities-related services.
- **Investment Banking (past 12 months):** J.P. Morgan received, in the past 12 months, compensation for investment banking services from Edison International, PG&E Corp., Sempra Energy.
- **Investment Banking (next 3 months):** J.P. Morgan expects to receive, or intends to seek, compensation for investment banking services in the next three months from Edison International, PG&E Corp., Sempra Energy.
- **Non-Investment Banking Compensation:** JPMS has received compensation in the past 12 months for products or services other than investment banking from Edison International, PG&E Corp., Sempra Energy. An affiliate of JPMS has received compensation in the past 12 months for products or services other than investment banking from Edison International, PG&E Corp., Sempra Energy.
- J.P. Morgan Securities LLC is acting as financial advisor to J.P. Morgan Global Commodities in connection with the acquisition of the European and Asian operations from the RBS-Sempra Commodities joint venture. The transaction will require approvals from the U.K. Financial Services Authority, the Swiss government (if necessary) and various antitrust regulators, including approval under the U.S. Hart-Scott-Rodino Act. The transaction is expected to be completed in the second quarter 2010. Sempra Energy has retained J.P. Morgan as its financial advisor to review potential alternatives for the remaining businesses.

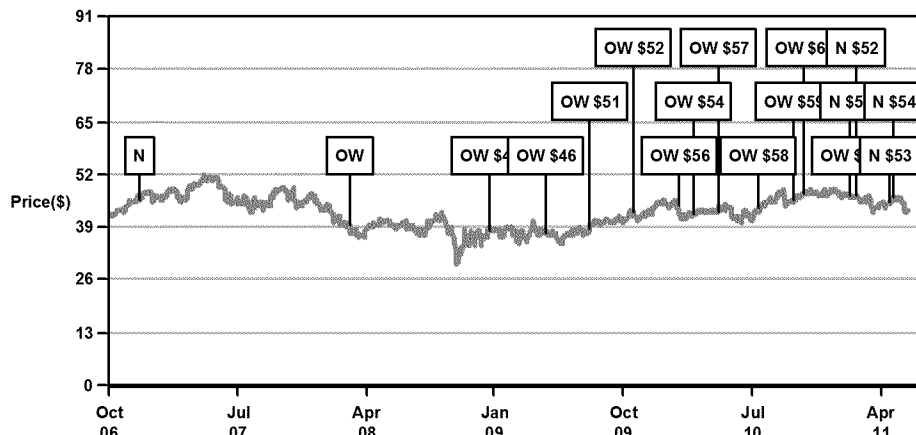
Edison International (EIX) Price Chart



Date	Rating	Share Price (\$)	Price Target (\$)
23-Dec-08	OW	30.91	46.00
12-Mar-09	OW	25.21	32.00
20-Apr-09	OW	27.81	38.00
26-Jun-09	OW	31.29	36.00
22-Jul-09	OW	31.48	37.00
22-Oct-09	OW	33.19	42.00
26-Jan-10	OW	34.20	43.00
20-Apr-10	OW	33.85	45.00
12-Oct-10	OW	35.35	38.00
20-Jan-11	OW	37.70	39.00
27-Jan-11	N	37.16	37.00
20-Apr-11	N	38.18	38.00

Source: Bloomberg and J.P. Morgan; price data adjusted for stock splits and dividends.
 This chart shows J.P. Morgan's continuing coverage of this stock; the current analyst may or may not have covered it over the entire period.
 J.P. Morgan ratings: OW = Overweight, N = Neutral, UW = Underweight.

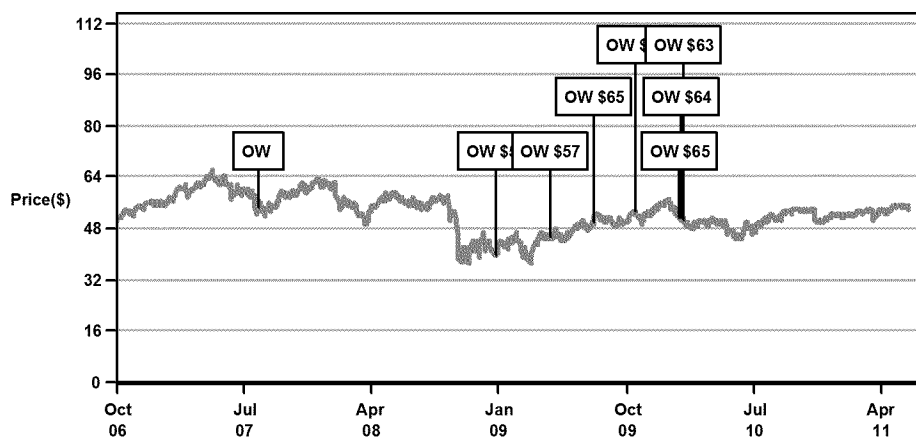
PG&E Corp. (PCG) Price Chart



Date	Rating	Share Price (\$)	Price Target (\$)
08-Dec-06	N	45.88	-
26-Feb-08	OW	39.81	-
23-Dec-08	OW	38.05	45.00
20-Apr-09	OW	37.66	46.00
22-Jul-09	OW	38.50	51.00
22-Oct-09	OW	42.44	52.00
26-Jan-10	OW	44.07	56.00
26-Feb-10	OW	41.92	54.00
20-Apr-10	OW	42.75	57.00
16-Jul-10	OW	43.52	58.00
29-Sep-10	OW	45.55	59.00
19-Oct-10	OW	47.21	60.00
24-Jan-11	OW	47.46	62.00
27-Jan-11	N	46.98	51.00
09-Feb-11	N	46.72	52.00
21-Apr-11	N	45.18	53.00
28-Apr-11	N	46.20	54.00

Source: Bloomberg and J.P. Morgan; price data adjusted for stock splits and dividends.
 Break in coverage Feb 11, 2004 - Sep 07, 2004. This chart shows J.P. Morgan's continuing coverage of this stock; the current analyst may or may not have covered it over the entire period.
 J.P. Morgan ratings: OW = Overweight, N = Neutral, UW = Underweight.

Sempra Energy (SRE) Price Chart



Date	Rating	Share Price (\$)	Price Target (\$)
01-Aug-07	OW	54.85	--
23-Dec-08	OW	39.68	54.00
20-Apr-09	OW	45.31	57.00
22-Jul-09	OW	49.86	65.00
22-Oct-09	OW	53.45	72.00
22-Jan-10	OW	51.55	65.00
26-Jan-10	OW	51.45	64.00
01-Feb-10	OW	50.75	63.00

Source: Bloomberg and J.P. Morgan; price data adjusted for stock splits and dividends.
 Break in coverage Oct 12, 2005 - Jun 30, 2006. This chart shows J.P. Morgan's continuing coverage of this stock; the current analyst may or may not have covered it over the entire period.
 J.P. Morgan ratings: OW = Overweight, N = Neutral, UW = Underweight.

Explanation of Equity Research Ratings and Analyst(s) Coverage Universe:

J.P. Morgan uses the following rating system: **Overweight** [Over the next six to twelve months, we expect this stock will outperform the average total return of the stocks in the analyst's (or the analyst's team's) coverage universe.] **Neutral** [Over the next six to twelve months, we expect this stock will perform in line with the average total return of the stocks in the analyst's (or the analyst's team's) coverage universe.] **Underweight** [Over the next six to twelve months, we expect this stock will underperform the average total return of the stocks in the analyst's (or the analyst's team's) coverage universe.] J.P. Morgan Cazenove's UK Small/Mid-Cap dedicated research analysts use the same rating categories; however, each stock's expected total return is compared to the expected total return of the FTSE All Share Index, not to those analysts' coverage universe. A list of these analysts is available on request. The analyst or analyst's team's coverage universe is the sector and/or country shown on the cover of each publication. See below for the specific stocks in the certifying analyst(s) coverage universe.

Coverage Universe: **Andrew Smith:** AGL Resources (AGL), Ameren Corp (AEE), American Electric Power (AEP), American Water Works (AWK), Black Hills Corp. (BKH), CMS Energy Corp (CMS), CenterPoint Energy (CNP),

Consolidated Edison (ED), Constellation Energy Group (CEG), Covanta Holding Corp. (CVA), Dominion Resources (D), Duke Energy Corp. (DUK), Dynegy, Inc. (DYN), Edison International (EIX), Entergy Corp. (ETR), Exelon Corp. (EXC), Integrys Energy Group (TEG), NRG Energy (NRG), NextEra Energy Inc. (NEE), Northeast Utilities (NU), PG&E Corp. (PCG), Pepco Holdings (POM), Progress Energy (PGN), Sempra Energy (SRE), Southern Company (SO), UIL Holdings Corporation (UIL), Vectren Corp (VVC), Wisconsin Energy Corp (WEC), Xcel Energy (XEL)

J.P. Morgan Equity Research Ratings Distribution, as of March 31, 2011

	Overweight (buy)	Neutral (hold)	Underweight (sell)
J.P. Morgan Global Equity Research Coverage	47%	42%	11%
IB clients*	50%	45%	33%
J.P.M.S. Equity Research Coverage	43%	49%	8%
IB clients*	70%	62%	56%

*Percentage of investment banking clients in each rating category.

For purposes only of FINRA/NYSE ratings distribution rules, our Overweight rating falls into a buy rating category; our Neutral rating falls into a hold rating category; and our Underweight rating falls into a sell rating category.

Valuation and Risks: Please see the most recent company-specific research report for an analysis of valuation methodology and risks on any securities recommended herein. Research is available at <http://www.morganmarkets.com>, or you can contact the analyst named on the front of this note or your J.P. Morgan representative.

Analysts' Compensation: The equity research analysts responsible for the preparation of this report receive compensation based upon various factors, including the quality and accuracy of research, client feedback, competitive factors, and overall firm revenues, which include revenues from, among other business units, Institutional Equities and Investment Banking.

Other Disclosures

J.P. Morgan ("JPM") is the global brand name for J.P. Morgan Securities LLC ("JPMS") and its affiliates worldwide. J.P. Morgan Cazenove is a marketing name for the U.K. investment banking businesses and EMEA cash equities and equity research businesses of JPMorgan Chase & Co. and its subsidiaries.

Options related research: If the information contained herein regards options related research, such information is available only to persons who have received the proper option risk disclosure documents. For a copy of the Option Clearing Corporation's Characteristics and Risks of Standardized Options, please contact your J.P. Morgan Representative or visit the OCC's website at <http://www.optionsclearing.com/publications/risks/riskstoc.pdf>.

Legal Entities Disclosures

U.S.: JPMS is a member of NYSE, FINRA and SIPC. J.P. Morgan Futures Inc. is a member of the NFA. JPMorgan Chase Bank, N.A. is a member of FDIC and is authorized and regulated in the UK by the Financial Services Authority. **U.K.:** J.P. Morgan Securities Ltd. (JPMSL) is a member of the London Stock Exchange and is authorized and regulated by the Financial Services Authority. Registered in England & Wales No. 2711006. Registered Office 125 London Wall, London EC2Y 5AJ. **South Africa:** J.P. Morgan Equities Limited is a member of the Johannesburg Securities Exchange and is regulated by the FSB. **Hong Kong:** J.P. Morgan Securities (Asia Pacific) Limited (CE number AAJ321) is regulated by the Hong Kong Monetary Authority and the Securities and Futures Commission in Hong Kong. **Korea:** J.P. Morgan Securities (Far East) Ltd, Seoul Branch, is regulated by the Korea Financial Supervisory Service. **Australia:** J.P. Morgan Australia Limited (ABN 52 002 888 011/AFS Licence No: 238188) is regulated by ASIC and J.P. Morgan Securities Australia Limited (ABN 61 003 245 234/AFS Licence No: 238066) is a Market Participant with the ASX and regulated by ASIC. **Taiwan:** J.P.Morgan Securities (Taiwan) Limited is a participant of the Taiwan Stock Exchange (company-type) and regulated by the Taiwan Securities and Futures Bureau. **India:** J.P. Morgan India Private Limited, having its registered office at J.P. Morgan Tower, Off. C.S.T. Road, Kalina, Santacruz East, Mumbai - 400098, is a member of the National Stock Exchange of India Limited (SEBI Registration Number - INB 230675231/INF 230675231/INE 230675231) and Bombay Stock Exchange Limited (SEBI Registration Number - INB010675237/INB010675237) and is regulated by Securities and Exchange Board of India. **Thailand:** JPMorgan Securities (Thailand) Limited is a member of the Stock Exchange of Thailand and is regulated by the Ministry of Finance and the Securities and Exchange Commission. **Indonesia:** PT J.P. Morgan Securities Indonesia is a member of the Indonesia Stock Exchange and is regulated by the BAPEPAM LK. **Philippines:** J.P. Morgan Securities Philippines Inc. is a member of the Philippine Stock Exchange and is regulated by the Securities and Exchange Commission. **Brazil:** Banco J.P. Morgan S.A. is regulated by the Comissao de Valores Mobiliarios (CVM) and by the Central Bank of Brazil. **Mexico:** J.P. Morgan Casa de Bolsa, S.A. de C.V., J.P. Morgan Grupo Financiero is a member of the Mexican Stock Exchange and authorized to act as a broker dealer by the National Banking and Securities Exchange Commission. **Singapore:** This material is issued and distributed in Singapore by J.P. Morgan Securities Singapore Private Limited (JPMSS) [MICA (P) 025/01/2011 and Co. Reg. No.: 199405335R] which is a member of the Singapore Exchange Securities Trading Limited and is regulated by the Monetary Authority of Singapore (MAS) and/or JPMorgan Chase Bank, N.A., Singapore branch (JPMCB Singapore) which is regulated by the MAS. **Malaysia:** This material is issued and distributed in Malaysia by JPMorgan Securities (Malaysia) Sdn Bhd (18146-X) which is a Participating Organization of Bursa

Malaysia Berhad and a holder of Capital Markets Services License issued by the Securities Commission in Malaysia. **Pakistan:** J. P. Morgan Pakistan Broking (Pvt.) Ltd is a member of the Karachi Stock Exchange and regulated by the Securities and Exchange Commission of Pakistan. **Saudi Arabia:** J.P. Morgan Saudi Arabia Ltd. is authorized by the Capital Market Authority of the Kingdom of Saudi Arabia (CMA) to carry out dealing as an agent, arranging, advising and custody, with respect to securities business under licence number 35-07079 and its registered address is at 8th Floor, Al-Faisaliyah Tower, King Fahad Road, P.O. Box 51907, Riyadh 11553, Kingdom of Saudi Arabia. **Dubai:** JPMorgan Chase Bank, N.A., Dubai Branch is regulated by the Dubai Financial Services Authority (DFSA) and its registered address is Dubai International Financial Centre - Building 3, Level 7, PO Box 506551, Dubai, UAE.

Country and Region Specific Disclosures

U.K. and European Economic Area (EEA): Unless specified to the contrary, issued and approved for distribution in the U.K. and the EEA by JPMSL. Investment research issued by JPMSL has been prepared in accordance with JPMSL's policies for managing conflicts of interest arising as a result of publication and distribution of investment research. Many European regulators require a firm to establish, implement and maintain such a policy. This report has been issued in the U.K. only to persons of a kind described in Article 19 (5), 38, 47 and 49 of the Financial Services and Markets Act 2000 (Financial Promotion) Order 2005 (all such persons being referred to as "relevant persons"). This document must not be acted on or relied on by persons who are not relevant persons. Any investment or investment activity to which this document relates is only available to relevant persons and will be engaged in only with relevant persons. In other EEA countries, the report has been issued to persons regarded as professional investors (or equivalent) in their home jurisdiction. **Australia:** This material is issued and distributed by JPMSAL in Australia to "wholesale clients" only. JPMSAL does not issue or distribute this material to "retail clients." The recipient of this material must not distribute it to any third party or outside Australia without the prior written consent of JPMSAL. For the purposes of this paragraph the terms "wholesale client" and "retail client" have the meanings given to them in section 761G of the Corporations Act 2001. **Germany:** This material is distributed in Germany by J.P. Morgan Securities Ltd., Frankfurt Branch and J.P.Morgan Chase Bank, N.A., Frankfurt Branch which are regulated by the Bundesanstalt für Finanzdienstleistungsaufsicht. **Hong Kong:** The 1% ownership disclosure as of the previous month end satisfies the requirements under Paragraph 16.5(a) of the Hong Kong Code of Conduct for Persons Licensed by or Registered with the Securities and Futures Commission. (For research published within the first ten days of the month, the disclosure may be based on the month end data from two months' prior.) J.P. Morgan Broking (Hong Kong) Limited is the liquidity provider/market maker for derivative warrants, callable bull bear contracts and stock options listed on the Stock Exchange of Hong Kong Limited. An updated list can be found on HKEx website: <http://www.hkex.com.hk>. **Japan:** There is a risk that a loss may occur due to a change in the price of the shares in the case of share trading, and that a loss may occur due to the exchange rate in the case of foreign share trading. In the case of share trading, JPMorgan Securities Japan Co., Ltd., will be receiving a brokerage fee and consumption tax (shouhizei) calculated by multiplying the executed price by the commission rate which was individually agreed between JPMorgan Securities Japan Co., Ltd., and the customer in advance. Financial Instruments Firms: JPMorgan Securities Japan Co., Ltd., Kanto Local Finance Bureau (kinsho) No. 82 Participating Association / Japan Securities Dealers Association, The Financial Futures Association of Japan. **Korea:** This report may have been edited or contributed to from time to time by affiliates of J.P. Morgan Securities (Far East) Ltd, Seoul Branch. **Singapore:** JPMS and/or its affiliates may have a holding in any of the securities discussed in this report; for securities where the holding is 1% or greater, the specific holding is disclosed in the Important Disclosures section above. **India:** For private circulation only, not for sale. **Pakistan:** For private circulation only, not for sale. **New Zealand:** This material is issued and distributed by JPMSAL in New Zealand only to persons whose principal business is the investment of money or who, in the course of and for the purposes of their business, habitually invest money. JPMSAL does not issue or distribute this material to members of "the public" as determined in accordance with section 3 of the Securities Act 1978. The recipient of this material must not distribute it to any third party or outside New Zealand without the prior written consent of JPMSAL. **Canada:** The information contained herein is not, and under no circumstances is to be construed as, a prospectus, an advertisement, a public offering, an offer to sell securities described herein, or solicitation of an offer to buy securities described herein, in Canada or any province or territory thereof. Any offer or sale of the securities described herein in Canada will be made only under an exemption from the requirements to file a prospectus with the relevant Canadian securities regulators and only by a dealer properly registered under applicable securities laws or, alternatively, pursuant to an exemption from the dealer registration requirement in the relevant province or territory of Canada in which such offer or sale is made. The information contained herein is under no circumstances to be construed as investment advice in any province or territory of Canada and is not tailored to the needs of the recipient. To the extent that the information contained herein references securities of an issuer incorporated, formed or created under the laws of Canada or a province or territory of Canada, any trades in such securities must be conducted through a dealer registered in Canada. No securities commission or similar regulatory authority in Canada has reviewed or in any way passed judgment upon these materials, the information contained herein or the merits of the securities described herein, and any representation to the contrary is an offence. **Dubai:** This report has been issued to persons regarded as professional clients as defined under the DFSA rules.

General: Additional information is available upon request. Information has been obtained from sources believed to be reliable but JPMorgan Chase & Co. or its affiliates and/or subsidiaries (collectively J.P. Morgan) do not warrant its completeness or accuracy except with respect to any disclosures relative to JPMS and/or its affiliates and the analyst's involvement with the issuer that is the subject of the research. All pricing is as of the close of market for the securities discussed, unless otherwise stated. Opinions and estimates constitute our judgment as of the date of this material and are subject to change without notice. Past performance is not indicative of future results. This material is not intended as an offer or solicitation for the purchase or sale of any financial instrument. The opinions and recommendations herein do not take into account individual client circumstances, objectives, or needs and are not intended as recommendations of particular securities, financial instruments or strategies to particular clients. The recipient of this report must make its own independent decisions regarding any securities or financial instruments mentioned herein. JPMS distributes in the U.S. research published by non-U.S. affiliates and accepts responsibility for its contents. Periodic updates may be provided on companies/industries based on company specific developments or announcements, market conditions or any other publicly available information. Clients should contact analysts and execute transactions through a J.P. Morgan subsidiary or affiliate in their home jurisdiction unless governing law permits otherwise.

"Other Disclosures" last revised January 8, 2011.

Copyright 2011 JPMorgan Chase & Co. All rights reserved. This report or any portion hereof may not be reprinted, sold or redistributed without the written consent of J.P. Morgan.