

Figure 38: Summary of NU Regulation by Subsidiary

Subsidiary	Allowed ROE	Expected Distribution Rate Filing	Adjustment Mechanisms/Trackers			
			Fuel & Purchased Power	Electric Transmission Costs	Stranded/ Transition Costs	Pension Tracker
CL&P	9.40%	Late '09/Early '10	x	x	x	
PSNH Dist.	9.67%	Filing Made Spring '09	x	x	x	
WMECO	8% - 12%	Mid - 2010	x	x	x	x
Yankee Gas	10.10%	No Plans	x	n/a	n/a	

Source: Company Presentations

## PSNH

On April 17, 2009 PSNH filed a temporary rate increase request with the Public Service Commission of New Hampshire (NH PSC). The generation side of the business is regulated at the state level with trackers and a set ROE somewhat similarly to federal transmission regulation. The temporary increase requested \$36.4 million in annualized revenues to be effective on August 1, 2009. Subsequently, the company filed a notice of intent with the commission stating that they would file a new rate schedule on or before July 1, 2009 that would constitute a \$51 million rate increase. The company would request rates effective as of August 1, 2009 and as is typical in New Hampshire the rate increase would be suspended by the commission pending a full general rate case review. This full GRC review would be expected to last about a year. The rate case metrics attached to either requested increase were not made public as of this writing; however, according to earlier projections by the company, we would expect the year-end average rate base to be about \$774 million for distribution assets and about \$389 million for generation assets. The NH PSC could grant both the temporary increase and a further increase, dependent upon the result of the full GRC review, or they could deny the temporary increase and merely adjudicate the full GRC. The company currently is regulated under a decision rendered by the commission on May 25, 2007 which allowed a \$50.1 million rate increase (+4%), which was premised upon a yearend 2005 average rate base of about \$668 million, a 47.66% equity ratio, and a 9.67% return on equity.

## CL&amp;P

The company has stated publicly that given current economic conditions that the anticipated rate case filing in CT would be delayed from mid-year 2009 to late year 2009 or early in 2010. We do have concerns around regulation in CT given the recent decision for a separate company, United Illuminating, in that state. To briefly review that case, in November 2008, United Illuminating requested a \$52.4 million revenue increase premised upon a rate base of about \$511 million, a 10.75% return on equity and a 50% equity ratio. In February 2009, the CT Department of Public Utility Control (DPUC) approved a rate increase of \$6.1 million, premised upon a rate base of about \$499 million, and equity ratio of 50% and a return on equity of 8.75%. After the rate order United Illuminating announced plans to cut capital expenditures by \$50 million after which

the CPUC and the CT Attorney General Richard Blumenthal became concerned over how this cut would impact reliability. The Attorney General filed a petition on May 18 with the DPUC asking the commission to review whether United Illuminating violated the order by reducing O&M expenses. United Illuminating then filed a petition with the DPUC saying the Attorney General's request was without factual support, and that the brief period of reduced expenditures would not impact reliability. The DPUC has stated that it wants to monitor capital and operating expenditure levels going forward.

In our view, the United Illuminating situation remains worth watching going forward and the 8.75% return on equity is a concern. If the economy recovers by early 2010 with CL&P is expected to file a better outcome may be in store in that rate case given less political pressure at that time. Based upon the company's projections as of this writing CL&P's rate base at the end of 2009 will be \$2.351 billion and at the end of 2010 will be \$2.557 billion.

#### WMECO

We anticipate that WMECO will file a rate case in mid-2010, the projected rate base at the end of 2009 is expected to be \$410 million and at the end of 2010 \$434 million. WMECO currently operates under an allowed ROE range of 8%-12% with tracked expenses as outlined above.

#### NSTAR (NST)

A seven-year rate settlement was approved by the Massachusetts Department of Public Utilities (DPU) on 12/30/05. The settlement includes annual inflation-adjusted distribution rate increases that began on January 1, 2007 and continue through 2012. These increases are generally offset by an equal and corresponding reduction in transition rates. The current rate plan incorporates a deferral mechanism for transition costs that are expected to be recovered over the 2010-2013 timeframe. The amount could approach \$250 million in 2010. A 10.88% carrying charge is earned on the average balance. A 50%/50% earnings sharing mechanism is triggered if NSTAR Electric's ROE exceeds 12.5% or falls below 8.5%. NSTAR Electric can initiate a rate proceeding if the ROE falls below 7.5%.

The Green Communities Act was enacted on July 2, 2008 by the Massachusetts Legislature and the DPU issued its Decoupling order on July 16, 2008. The act covers solar installations, encourages long-term renewable energy contracts, requires implementation of a smart grid pilot program, establishes a Renewable Portfolio Standards (RPS) goal for the state of 15% by the year 2020, and requires the pursuit of all cost-effective energy efficiencies. The DPU's plan is to phase in a decoupling model between now and 2012. Utilities that are operating under a rate agreement can continue to do so, but for all incremental energy efficiency spending, NST will be able to recover any lost base revenues and earn performance incentives on that spending. NST filed a plan with the DPU for 2009 in December 2008 and has since filed a three year plan.

### Transmission Initiatives Update

NST's base transmission ROE is set at 11.64% with the opportunity to earn an additional 100 bp on new construction projects. NST's approximate transmission rate base is \$750 million. The company completed a second and final phase of a major underground transmission project in 2008, at a total cost of about \$300 million. NST expects 2009 transmission expenditures to be about \$100 million.

On May 21, 2009, NST and Northeast Utilities (NU) announced that the FERC ruled favorably on the proposed structure of a transmission arrangement that interconnects New England with the Canadian province of Quebec. FERC approved the participant-funded transmission line between New England and Quebec, and the assignment of firm transmission rights to Hydro-Quebec (HQ) to enable HQ to deliver low-carbon hydroelectric power into New England. The new tie line will use high voltage direct current (HVDC) technology to connect HQ's hydroelectric system and New England's 345-kV system in south central New Hampshire. This will provide approximately 1,200–1,500 mW of import capability into New England at a total cost of an estimated \$700 million to \$800 million, including NST's share of \$200 million. Construction will likely take place in the 2011–2014 timeframe. This corresponds well with NST's current rate plan (described above) which incorporates a deferral mechanism for transition costs that are expected to be recovered (cash) over the 2010–2013 timeframe, including an approximate \$250 million in 2010.

### NV Energy (NVE)

NVE Energy is the largest utility in the state of Nevada and has two main utility subsidiaries, Sierra Pacific Resources in the northern portion of the state and Nevada Power in the southern portion of the state, whose service territory includes Las Vegas. Both subsidiaries market under the NV Energy name, and the company changed its name and stock symbol from Sierra Pacific Resources (SRP) to NV Energy (NVE) in the past year. Similarly, the two utility subsidiaries at the company whose legal names remain Sierra Pacific Power Co. in the north and Nevada Power Company in the South are now referred to as NV Energy North and NV Energy South.

Under current law in Nevada fuel and purchased power are trued up on a monthly basis and the Commission uses a hybrid test year that adjusts for known and measurable changes. Nevada Power is currently in with a rate case before the Public Utility Commission of Nevada (PUCN) and a decision was made by the commission on June 24 and rates became effective on July 1.

### Nevada Legislature

In the just completed legislative session in Nevada the legislature passed some changes to utility regulation in the state. NV Energy North will file their next rate case no later than the first Monday in June 2010, and NV Energy South will file their next rate case no later than the first Monday in June 2011. Holding to the 210 day statutory limit within NV for deciding a rate case the rates from each filing will become effective, subject to Public

Utility Commission of Nevada (PUCN) approval, on January 1 of the year following the filing. Further, the PUCN will be allowed under the new law to allow deferral of rate implementation upon the request of a utility and is allowed to implement low income customer rates. The renewable portfolio standard was increased from 20% to 25% by 2025. The amount of the standard that must come from solar generated power was increased from 5% to 6% of the RPS by 2016. Procurement of power from outside the state will now also be allowed to count against the standard. Further, the commission is now authorized under the new law to develop and adopt regulations allowing for utilities to recover energy efficiency impacts.

#### Nevada Power

On February 27, 2009, as required under the hybrid test year structure Nevada Power filed a revised request for \$305.7 million versus their original request of about \$324 million made in December 2008. The revised filing is premised upon a rate base of just over \$5.0 billion, an equity ratio of 44.15% and a return on equity of 11%. The Staff recommendation was issued on April 14, 2009 and called for a \$202.8 million revenue increase on a rate base of just under \$4.6 billion, an equity ratio of 44.15% and a return on equity of 10.5%. The subsidiary currently earns a 10.7% return on equity which is what we model going forward. On June 18, 2009, Commissioner Sam Thompson issued a draft order calling for a \$218 million revenue increases premised upon a \$4.7 billion rate base, a 44.15% equity ratio, and a 10.4% return on equity. The key difference between the request and the staff rec/proposed order other than the ROE was a disallowance of CWIP in rate base related to the Harry Allen plant. The company is earnings neutral to this outcome as they will book AFUDC on this CWIP going forward. There will be a cash lag related to this, however.

The draft order would de-skew rates from non-residential customers to residential customers. Residential rate increases from this de-skewing will be mitigated as the increase would coincide with a reduction in the Base Tariff Energy Rate (BTER) for fuel costs to take place on January 1, 2010. NPC's revised request called for a residential customer rate increase of 16.7%, and the commission draft order calls for a rate increase of 9.3% (12.3% with the de-skewing). With reductions to the BTER the net increase to customers from the draft order would be 6.8%. To further mitigate rate shock the commission draft order calls for a phase-in of rates in two stages. The first stage would be a 3% increase on 7/1/09 and the second increase would be for the balance of the increase of 3.8% (6.8% estimated net of the BTER less the 3% implemented on 7/1/09) and will occur on 1/1/10. The company will book revenue as though the entire rate increase had occurred on 7/1/09 and hang the cash to revenue difference on the balance sheet for future recovery.

The final order was approved by the PUCN on 6/24 and was slightly better than the draft decision. The commission approved a \$222 million revenue increase premised upon a \$4.7 billion rate base, a 44.15% equity ratio and a 10.5% return on equity.

**PG&E Corp. (PCG)**

PG&E Corp. is a large utility that serves northern California including San Francisco. The company is currently operating under a three year rate order which will expire on 1/1/11. As a result the company will be filing a General Rate Case later this year for rates to be effective on 1/1/11. We would expect that the next General Rate Case will call for a three year forward rate schedule which would take account of attrition and rate base growth over time. PCG operates in CA under nearly full sales decoupling and all energy procurement costs are passed through. Further the company operates under a multi-year cost of capital mechanism with an adjustor, if triggered, and has significant precedents in place at the California Public Utilities Commission (CPUC) related to pension recoveries. As of this writing pensions were 83% funded and the 2006 settlement with the CPUC allowed for contributions of \$176 million per year through 2010. Regulatory accounting allows the use of a balancing account to neutralize pension related earnings impacts, and a balancing account is used should cash contributions rise above \$176 million annually. The one major item which does get tracked in some other jurisdictions which is not tracked in California is uncollectables expense. There are several different regulatory activities set to occur for PG&E Corp. beginning later this year and throughout 2010. We detail them below.

**Cost of Capital Mechanism Filing**

The current cost of capital adjustment mechanism operates through the end of 2010. The mechanism sets an initial return on equity and then allows for that ROE to be adjusted on a once a year basis should a bond index move by more than 100 bp. If the mechanism were triggered in this way the ROE would be adjusted up or down by half of the move in the index. The index is measured annually from October to September each year. The company then makes an advice filing at the CPUC indicating the move in the reference bond index and the calculated ROE adjustment, if applicable. We would anticipate this advice filing is made in mid-October. There is some disagreement over which Moody's Bond Index should be used as the reference index as the CPUC regulations in the mechanism do not specifically address how to treat a split rated company. However, for Edison International, the CA utility subsidiary of EIX, which is also split rated, the lower rating was applied. This is important as so far the Moody's Baa Bond Index is above the 100 bp trigger level while the Moody's A Bond Index is still below the trigger by about 40 bp. It is our view that the Baa Index will be applied this fall.

Since the ROE adjustment mechanism is only in place through 2010, another filing has to be made in the spring of 2010, likely in April, for the Cost of Capital mechanism which will be in place in 2011 and beyond. This will open the issue of whether the multi year ROE adjustment mechanism is kept or whether CA reverts to annual Cost of Capital proceedings as was done in the past. It will also allow for the potential adjustment to the allowed capital structure, which is now 52%. We expect the company to file for a multi year mechanism in April and a decision to be made by the CPUC on this matter by December 2010.

### Energy Efficiency Incentives

The Energy Efficiency Incentives in California are awarded using a look back mechanism. The utility gets to book a portion of the award on an annual basis using a one year look back and after a three year "cycle" gets to book the remainder of the award by looking at the performance over that entire three year period. The company received 35% of the calculated 2006 and 2007 incentives amid debate at the CPUC over how to measure the direct impact of PG&E's programs and what portion of overall efficiency gains those programs were directly responsible for. The CPUC plans a full review of the 2006-2008 cycle by year end 2009 and completion of the true-up for the three year period by year-end 2010.

The 2009-2011 cycle is also under review at the commission with a full review of the entire mechanism under way. The CPUC has indicated that the avowed goal of the proceeding is to make the process transparent and simplified. Although there has been some opposition to the energy efficiency awards voiced in the CA Assembly, we expect some sort of long term award mechanism to be put in place by yearend 2009.

### Electric General Rate Case

The current general rate case under which the utility operates terminates in January 2011. Therefore the company will file a new GRC before the CPUC. A notice of intent, which will contain the majority of the details of the filing will be made in August 2009, with the filing of the first application occurring in November 2009. Testimony would be expected to be filed in December 2009 with litigation occurring throughout 2010. Third party filings and company responses will occur in the spring, hearings will likely be held in the summer with a final decision by year-end. The CPUC has been later than this on some decisions in the past but if that delay occurs rates would be made retroactively effective to 1/1/11. In our view the process would stretch no further than March of 2011. The commission under the CA statutes will have 30 days after an AJ decision is rendered to issue a final order.

### FERC Transmission Rate Orders

In California transmission rate base is regulated by the FERC at the national level. This rate base currently earns a 12% return on equity versus the 11.35% return on other assets as awarded by the CPUC. The FERC sets this return in an annual filing with the commission which the company makes every August for a decision in approximately 12 months time. This timeline gets extended somewhat if there is a prospect for settlement which has occurred the last couple of years. The last decision was Transmission Order 10 in which the company asked for a \$760.5 million revenue requirement and received a \$718 million revenue requirement under a settlement in October 2008. Transmission Order 11, in which the company requested \$849 million has reached a settlement which has been filed with an AJ at FERC, a final decision is anticipated in 3Q09. Transmission Order 12 will be filed at the FERC on or about August 1, 2009.

**Other Items**

In what amounts to a very full regulatory year, the company will also file their next Gas Accord in the second half of 2009 with a decision likely by 3Q10 and will file their compliance filing with regard to meeting California's renewable portfolio standard (RPS) of 20% on August 1, 2009.

**PNM Resources (PNM)**

PNM Resources operates an integrated electric utility in New Mexico, PNM Electric (PNM-E) and an T&D utility in Texas, Texas New Mexico Power (TNMP). On May 28 the New Mexico Public Regulatory Commission (NM PRC) approved a staggered \$77.1 million revenue increase for PNM-E that will take place in 2009 and 2010. As part of the order the company is prohibited from any rate increases until March of 2011. The New Mexico legislature also passed a forward test year into law under which PNM-E's next rate case, presumably filed in 2010 for rates effective after March of 2011 will be filed under. As of this writing it is difficult to say what the timing and structure of the next PNM-E rate filing will look like.

**TNMP**

TNMP has an ongoing rate case in Texas which was filed by the company on August 29, 2008 requesting \$8.7 million in revenue increases. An amended request was filed on March 31, 2009 which increased the requested revenue increase to \$24.4 million or +16%. The request was updated for Hurricane like interruption costs, as Texas law now allows for such recovery, and a higher cost of debt. The amended request is premised upon a \$430 million rate base, a 40% equity ratio, and a requested return on equity of 11.25%. About \$6 million of the differential between the original and the amended request results from increasing cost of debt (from 7.14% to 9.43%), another \$5.1 million is resultant from a proposal to recover \$20.6 million in Hurricane like related costs over the next five years.

On June 3, 2010 the Public Utilities Commission of Texas (PUCT) Staff issued a recommended order of a \$7.6 million revenue increase premised upon a rate base of just under \$430 million, an equity ratio of 40% and a return on equity of 10.33%. The \$7.6 million recommended increase includes a \$5.0 million storm allowance per lke, a \$1.1 million transition cost recovery rider increase and a \$1.5 million base rate increase. These lead to a difference of about \$17 million between the \$18.2 million base rate increase sought by TNMP and the staff's recommendation of \$1.5 million. Approximately \$14 million of the difference is made up of net operating income items while the remaining \$3 million results from a lower recommended return on equity. The biggest NOI items are a reduction in D&A expense (\$5 million) and a flow through of tax benefits to ratepayers (\$5 million).

The company announced a settlement with all parties to the case had been filed with the PUCT on June 22, 2009. The agreement would allow a \$6.8 million increase in base rates and an additional revenue increase of \$5.9 million to cover Hurricane like restoration

and increased financing costs. This settlement for a \$12.7 million total revenue increase was black box in nature. Hearings were held the week of June 16 2009 and a PUCT decision is expected prior to early October

### **Pepco Holdings (POM)**

POM's regulatory calendar on the state level in 2008 was focused towards the beginning of the calendar year, while the company remained active with FERC through the latter part of the year with regards to the Mid-Atlantic Power Pathway (MAPP) transmission line. POM did receive some good news on 10/31/2008 when FERC approved the 150 bp adder, bringing POM's allowed ROE on the project to 12.8%. The lack of activity in 2008 on the state regulatory front brings on a busy 2009 for POM, with all subsidiaries filing rate cases in at least one jurisdiction, and some additional regulatory matters (addressed below in greater detail) with regards to pension and other benefit expense trackers, stimulus funding for efficiency and smart meters, and low cost financing options from the DOE for MAPP.

### **Pepco**

POM's Pepco subsidiary recently filed (5/22/2009) their first rate case of the year, and probably POM's most significant of 2009, in Washington D.C. The company is currently asking for a \$51.7 million revenue increase, premised upon an 11.5% ROE and an equity-to-total-cap ratio of 53.8%. Washington, D.C. can at best be described as an average jurisdiction from an investor's standpoint, and as a result, we have, in our view, tempered expectations for how much of the company's current ask will actually be allowed by the PSC. This is further reinforced after looking at Pepco's most recently decided rate case in D.C. The final order included a revenue increase of \$28.3 million, premised upon a 10.0% ROE and an equity to total capitalization ratio of 46.6% (for rates effective 2/20/2008), after the company originally requested a revenue increase of \$50.5 million with an 11.0% ROE and 46.6% equity/total cap ratio.

Rounding out Pepco's near-term regulatory schedule is an expected filing in Maryland during 1Q10. We have baked into our estimates \$44 million in rate relief for all of Pepco (the company is 53% in D.C and 47% MD by rate base), reflecting a fairly dour, however realistic, result in both cases. The asking amount in MD's rate case is not expected to be nearly the same magnitude as D.C.'s filing, as the company manages to earn much closer to their allowed ROE. Furthermore, Pepco's rate case history in Maryland, as exhibited by the gross discrepancies between the company's initial requests and the commission's final orders, can be described as negatively leaning at best.

### **DPL**

On 5/6/2009 DPL filed a rate case in Maryland, requesting a revenue increase of \$14.15 million, premised upon an 11.25% ROE and a 49.9% equity to total cap structure. While Maryland is not, in our view, a jurisdiction that is constructive for utilities, DPL has historically had fairly good regulatory relationships. In DPL's last MD rate case, the company's final revised request was for a revenue increase of \$15.8 million, with a 10.75% ROE, and a 48.6% equity to total cap ratio. The MPSC's final order was for a



revenue increase of \$14.9 million with a 10.0% ROE and a 48.6% equity to total cap ratio.

DPL is also expected to file an electric rate case in Delaware during 3Q09 followed by a gas rate case filing in Delaware during 2Q10. DPL's Delaware jurisdiction (58% of electric rate base) is, in our view, average to slightly better than average, and the company's better (relative) performance there (adjusted earned ROE of 8.20%) makes the upcoming case there somewhat less important relative to the current case in Maryland. Baked into our estimates is total relief for DPL's electric operations in Maryland and Delaware of \$18 million. We believe that our rate case outcome assumption is reasonable, and may prove to be optimistic if Maryland's case doesn't come to fruition as constructively as the most recently decided case did.

#### ACE

During the third quarter of 2009, POM's ACE subsidiary will be filing a rate case in New Jersey. Baked into our estimates for ACE is rate relief of \$16 million, an amount that may prove to be conservative but that we are comfortable with especially when considering NJ's historically uncertain regulatory track record.

#### Pension Deferral Filings

On May 1, 2009 POM filed in all of their jurisdictions a request to defer, in aggregate, \$35 million in pension expense for 2009. The amount deferred would then be incorporated into the next rate case filing for each utility, respectively. In addition, POM is making a push to establish a three year moving average of pension, other employee benefit, and bad debt expense that would help to mitigate the cost increases for POM by allowing a surcharge and would dampen the rate shock consumers experience when the expenses would otherwise roll into rates after cases.

#### Potential Benefits from the Stimulus Package and DOE Initiatives

POM's "Blueprint for the Future" program is a good candidate for the government stimulus funds that have been earmarked for smart meters, efficiency, and conservation programs in general. Although the competition for the government funds is most likely going to be quite stiff (preliminary indications are that only six to eight projects nationwide may be in the first round to receive funding), we believe that it is definitely a possibility that POM will at least partially secure funds from the government's program. In addition, we think that POM's MAPP transmission line is a strong candidate for the DOE's loan guarantee program. If POM is successful in their application, their financing cost for the project would drop substantially (could be as much as 300-400 bp of incremental benefit in terms of reduced borrowing costs on POM's request for \$684 million in MAPP financing). It is beginning to appear increasingly likely that POM will benefit from the DOE's program (on May 27 POM was told by the DOE that their application was selected for a due diligence review) with a final decision expected tentatively during 3Q09.

**Portland General Electric (POR)**

POR received a final order on January 22, 2009 in its most recent GRC. The corresponding rate base associated with the order was \$2.278 billion. POR's authorized ROE under the order was 10.1%, with an equity structure of 50%. The order further authorized POR's proposed decoupling mechanism (described below); a condition of this mechanism was a reduction in the company's allowed ROE from 10.1% originally authorized to 10.0%. POR's general rate cases utilize a forward-looking test year. The company calculates allowance for funds used during construction (AFUDC) on construction work in progress, and when capital projects are placed into service, both capital investment and AFUDC are included in rate base. Pending or planned cases include:

- UE-204, which is a request for recovery of costs associated with Selective Water Withdrawal Project, with an estimated cost of \$80 million (POR's share). An implementation date under existing rate parameters is pending. A prehearing conference will be held following the conclusion of POR's root cause analysis of certain operational complications
- Annual Power Cost Update Tariff, for which an initial filing was made in April 2009 and will be made once again in April 2010, to adjust rates to reflect updated forecasts of net variable power costs. This is expected to be implemented on January 1 of the year following the filing. Under the Annual Power Cost Update Tariff, customer prices are adjusted annually to reflect the latest forecast of net variable power costs for the following year. As required, the company's initial forecast of 2010 power costs was submitted to the Oregon PUC (OPUC) on April 1, 2009. Such forecast will be updated during the year and will be finalized in November. Based upon the final forecast, new prices, as approved by the OPUC, will become effective January 1, 2010.
- Renewable Adjustment Clause Filing, for Biglow Canyon II project made in April 2009 for deferral until the project would be included in rates on January 1, 2010. The company anticipates a similar filing for Biglow Canyon Phase III in 2010.

**Decoupling Adopted**

A decoupling mechanism was approved in POR's recent rate case filing (UE-197). The decoupling mechanism referred to as the "Sales Normalization Adjustment" (SNA) and the Lost Revenue Recovery (LRR). The SNA applies to residential customers is simple balancing account and rate adjustment process that would greatly diminish the disincentives of supporting and encouraging innovative and effective programs to improve customer energy efficiency. The disincentives are manifest through reduced energy usage that in turn lowers POR's revenues, particularly revenues to cover the fixed costs of POR's operations. In addition to the SNA for residential customers, the Commission approved the LRR decoupling mechanism applied to large non-residential customers the loads less than 1mW.

### Advanced Metering

POR will deploy 850,000 "smart meters" to residential and commercial customers. The company deployed approximately 16,000 meters in the systems acceptance testing phase of the project. The systems acceptance testing phase has been completed and full deployment of the remaining meters began in April 2009. The project is expected to be completed in 2010 with an estimated cost of \$130 million-\$135 million.

### PPL Corp (PPL)

PPL Corp. is a vertically integrated utility in Pennsylvania which operates an unregulated generation subsidiary, PPL Supply, a regulated T&D utility, PA Electric Delivery, and an International Delivery segment which owns and operates T&D assets in the United Kingdom.

### PPL Supply and Rate Caps in PA

PPL Supply currently operates under rate caps for their provider of last resort (POLR) load that were put in place in PA when the generation industry was deregulated. These rate caps are set to expire on 1/1/10. The other companies still operating under rate caps in PA (EXC, FE, AYE) remain capped until 1/1/11. PPL Supply filed with the PA Public Utility Commission (PA PUC) in 2007 to procure power for 2010 under six auctions to be held twice a year. This was done to allow for a "dollar cost average" type approach to power procurement and not leave the entire load vulnerable to price spikes in either direction on any particular day. Power has been procured under the approved auction process in five auctions so far, with pricing as indicated in Figure 39.

Figure 39: PPL Auctions

<u>PPL Auction Results &amp; Expectations</u>	5th Auction	4th Auction	3rd Auction	2nd Auction	1st Auction
<u>Off-Peak</u>	<u>on 3/31/09</u>	<u>on 9/29/08</u>	<u>on 3/24/08</u>	<u>on 10/1/07</u>	<u>on 7/23/07</u>
PJM West Hub 7x8	\$ 43.00	\$ 54.63	\$ 48.39	\$ 42.23	\$ 37.71
PJM West Hub 2x16	\$ 43.00	\$ 68.24	\$ 67.44	\$ 64.34	\$ 68.79
<u>On-Peak</u>					
PJM West Hub 5x16	\$ 68.00	\$ 84.41	\$ 83.72	\$ 78.88	\$ 77.43
PJM West Hub ATC	\$ 60.14	\$ 71.40	\$ 68.84	\$ 63.88	\$ 62.64
Total Gap to ATC (1)	\$ 38.80	\$ 40.82	\$ 39.96	\$ 41.12	\$ 35.48
Expected/Actual Auction Result	\$ 88.74	\$ 112.23	\$ 108.80	\$ 106.00	\$ 98.00

Notes:

(1) Gap includes capacity payments, line losses, ancillary services, etc

Multiple of ATC price	1.73x	1.57x	1.58x	1.64x	1.57x
-----------------------	-------	-------	-------	-------	-------

Source: Bloomberg, Barclays Capital Estimates

The issue of rate shock came to the fore in PA in 2008 as the auction prices for power were significantly above the current capped POLR rates. To mitigate rate shock to end use customers PPL proposed a rate mitigation plan with the PA PUC under which cash collections from customers would be delayed, and the difference between actual cash rates

charged to customers and revenue booked at market rates would be hung on the balance sheet. This would allow PPL to go to market but would slowly raise rates for customers over a three year period. In other words, rather than, for example, say a 24% increase in 2010 the customers would see an 8% increase per year for the next three years.

Political pressure from the legislature increased in 2008 with attempts to extend rate caps as well as a compromise proposal that would have sanctioned the mitigation plan concept into law. Late in the 2008 session, the PA legislature passed HB 2200 from which the extension of rate caps was removed. The bill passed 47-3 in the Senate and 157-32 in the House, and called for "least-cost" and "competitive-procurement" requirements which would allow for RFPs for power and long term contracts for procurement instead of or in addition to auction processes. The bill also included new requirements for PA PUC review of long term power contracts, demand side management targets of 2.5% around the clock, and 4.5% on-peak consumption reduction in five years time, and for smart meters to be depreciated over 15 years.

The debate over rate cap expiration, as expected, has begun anew in the 2009 legislative session. House Speaker McCall (D) has introduced House Bill 20 which would write into law rate mitigation plans similar in nature to the one PPL has filed and that has received PA PUC approval. Also, Bud George (D) has introduced a rate cap extension bill similar in nature to the one he introduced in the 2008 session which did not pass. It is likely that the budget process dominates legislative activity through the summer and rate cap or rate mitigation issues will not come to the fore until September and October of this year.

#### PA Electric Delivery

We anticipate that PA Electric Delivery will file a rate case with the PA PUC in the spring of 2010 for rates to be effective 1/1/11. The regulatory process in PA would be expected to take approximately nine months to complete. The company's last rate case was adjudicated in 2007 with a commission decision on 12/6, which allowed a \$55 million increase in revenues, or +1.7%. Internal metrics of the rate case were not specified. The company had requested an \$83.6 million revenue increase premised upon a rate base of about \$2.0 billion, a 43.13% equity ratio and a return on equity of 11.5%.

#### International Delivery

In the U.K. regulatory and rate setting process works differently than it does in the United States. Under the U.K. rate structure all utility companies go in for a rate review at the same time under which rates are set for the next five year period, otherwise known as a Distribution Price Control Review (DPCR). The U.K. regulator will perform a regression analysis to find the theoretical maximum efficient company. The regulator will then determine the returns and overall revenue requirement that this theoretical company would earn. Then each company is placed where they belong along the regression according to various measures of efficiency and their revenue requirements and returns are thus determined. The process allows for the company to set a capital and O&M budget for the next five years. The companies also have an opportunity to earn bonuses above and

beyond their revenue requirements for the highest customer service ranking (which PPL has been awarded for some time) and for the lowest cost of service, although this mechanism does not make adjustments for the natural cost differentials between a rural and an urban system. Initial proposals under the DCPR currently under way are expected in July 2009.

### **Progress Energy (PGN)**

#### **Progress Energy Florida (PEF)**

On March 20, 2009, PEF filed with the Florida Public Service Commission (FL PSC) for a \$500 million rate increase, premised upon 50.5% equity and a 12.54% ROE. The new rates would be effective for January 1, 2010. PEF is asking for a 2010 test year in the process. As part of this rate request, PEF asked for \$13 million in interim rates. PEF is also filing for \$63 million of rate relief associated with the repowering of the Bartow plant, which is scheduled to come on-line in June 2009. The FL PSC approved both the interim and Bartow requests in full, subject to refund, on May 19. The \$76 million in higher rates were effective as of July 1. On April 9, PEF received approval for a reduction in fuel expenses of \$206 million. Taking this into account, the net increase of the fuel reduction and rate increase request would result in, at most, a \$294 million increase to customers by January 2010. The FL PSC is expected to rule in late December on the base rate increase. As we've noted previously, recent constructive decisions in Florida, as well as the accompanying reduction in fuel costs, suggest to us that a positive outcome is probable at PEF.

In May, PEF announced it would be postponing by 20 months the construction schedule of its proposed Levy nuclear site – suggesting an on-line date for the project of 2020 or later. The NRC has provided a limited work authorization for the green field site, and PEF has recently concluded that the authorization does not contemplate some of the more advanced site prep work they had planned until the NRC gets more comfortable around the geology and seismology of the nuclear island which is located in a wetlands environment. We expect full authorization and the COL will be issued at some point – likely in late 2011 or early 2012 – but the delay should lower capex for 2009 and 2010 by about \$100 million and \$350-400 million, respectively.

On the subject of cost recovery for expenses related to the Levy build, PEF updated its filings before the Florida PSC on May 1. Through 2009, PEF estimates that it will be about \$300 million under-recovered in Florida. Under existing statute, PEF would be able to recover that \$300 million, plus 2010 spending adjustments, that would result in a customer increase of about \$446 million. Most of this amount would be a pass-through of costs and capital, and likely result in about \$32 million of higher earnings (for both Levy and the CR3 uprate). In PEF's May 1 filing, it proposed to defer the \$300 million under-recovery over five years – softening the 2010 rate increase to customers – if allowed to earn carrying costs on the deferred balance. The resulting change would reduce 2010 customer impact by about \$210 million, but would actually increase PEF's earnings by about \$29 million pre-tax (in addition to the \$32 million cited above) to reflect a return on carrying charges. This could add \$0.06–\$0.07 versus current projections, and we don't

believe this is currently included in consensus estimates. Hearings are expected in the matter from September 8-11, with a FL PSC vote likely around October 16. New rates would be effective in January 2010.

#### **Progress Energy Carolinas (PEC)**

In South Carolina, PEC filed to reduce fuel costs by \$13 million on May 7. A settlement was approved by the South Carolina Public Service Commission (SCPSC) in early June, with rates effective for July 1. Also in early May, the SCPSC approved a settlement regarding demand side management (DSM) and conservation that would allow PEC to recover those investments through an annual rider.

In North Carolina, the legislature allows for utilities to recover DSM expenses as part of its 2007 energy legislation. The North Carolina Utilities Commission (NCUC) has approved a 2008 request by PEC to recover DSM and renewable energy portfolio standards costs through clause mechanisms. PEC filed to reduce fuel costs by a small amount on June 4, 2009, and also made small filings to adjust efficiency and renewable costs. Hearings are slated for September, with orders expected in October. The adjustments would take effect on December 1, 2009.

Longer term, PEC has made filings to support its goal of improving its distribution grid via a \$260 million investment over five years. PEC sees these investments as a precursor to eventual smart grid upgrades, and as a part of its DSM work. A decision from the NCUC could be forthcoming with respect to both the details of the plan and its recovery mechanisms at any point.

#### **Public Service Enterprise Group (PEG)**

##### **Public Service Electric & Gas (PSE&G)**

PSE&G is in the middle of several rate filings and a fair amount of regulatory activity, as the economic situation in New Jersey has caused Governor Corzine to urge utilities to increase near-term spending on items such as energy efficiency and conservation in the interest of adding jobs to stem the recession's impact. To that end, PSE&G has filed for \$1.7 billion in infrastructure, conservation, and solar spending in the early part of 2009. \$698 million of infrastructure spending has already been approved by the New Jersey Board of Public Utilities (NJ BPU), which granted a 48% equity structure and 10% ROE - shy of the 51% equity and 10.5% ROE requests, but the company was also given a monthly true-up on actual spending to eliminate cash lag. The remaining \$963 billion is comprised of \$773 million of various solar initiatives, and \$190 million of conservation spending. Both requests are expected to be reviewed by the BPU over the summer. We expect similar treatment to that received for the infrastructure projects.

PSE&G also filed an electric and gas rate case in New Jersey on May 29, asking for a gross increase of \$230.6 million. This amount would be offset by \$97 million in reductions associated with lower gas commodity costs, resulting in a net requested increase of about \$133.6 million. The case is based on \$6.2 billion of rate base (\$3.8 billion

electric; \$2.4 billion gas), a 51.2% equity structure, and 11.5% ROE. It uses a 2009 test year, implying a part-historical / part-forward looking test year in the case. In addition, PSE&G is asking for a tracker mechanism on capex spending, which would further reduce regulatory lag. The filing should receive a ruling from the BPU within the next nine to 12 months.

#### **Sempra (SRE)**

SRE has the benefit of a very secure regulatory future in both the near and medium term. With the approval of a multi-year settlement on August 1, 2008, SRE's regulated subsidiaries (gas distributor Southern California Gas, SoCalGas) and gas and electric utility San Diego Gas and Electric (SDG&E) have annual revenue increases of about \$95 million locked up through 2011, keeping both utilities out of extensive rate case proceedings until 2012 is addressed. The more minor regulatory issue that SRE will be addressing with the CPUC in the coming months is SoCalGas's cost of capital tracking mechanism that is currently partially tied to 30 year treasury yields. SRE believes that due to government intervention in the treasury market, the artificially low yields are not adequately capturing the cost of capital for the utility. A final decision for SoCalGas is expected during 3Q09 and we believe that the commission is likely to allow the change, due in a large part to the fact that every other California utility has a cost of capital tracker tied to a utility bond index rather than a treasury bond index.

#### **Efficiency, Conservation, and Renewables**

Beyond traditional rate cases, SRE also had a successful 2008 in terms of efficiency, conservation, renewable related programs. With the rollout of SDG&E's \$500 million smart meter program already in process, additional smart meter installations planned for SoCalGas (final approval expected in 4Q09 with installations expected to begin in 2011), and final approval of the Sunrise Powerlink transmission line already in hand, SRE is well positioned to benefit from policies aimed at pushing a "green" agenda.

#### **Southern Co. (SO)**

Southern Company operates four regulated utility subsidiaries, Georgia Power, Alabama Power, Mississippi Power, and Gulf Power, located in GA, AL, MS, and FL, respectively. They also operate an unregulated IPP subsidiary, Southern Power, which acquires or builds generating assets and signs them to long-term contracts, a model which minimizes risk. The only upcoming regulatory item of significance for Southern is the upcoming June 2010 filing of a GRC at Georgia Power, and the regular annual processes in Mississippi and Alabama. The company is not expected to file a rate case in Florida at this time.

A summary of regulations by subsidiary is provided in Figure 40.

Figure 40: Southern Co. Regulations by Subsidiary

Base Rates	Alabama	Georgia	Gulf	Mississippi
Alternative Ratemaking	Rate RSE			PEP-4
Traditional Regulation		ROE Band	ROE Band	
Regulatory Clauses				
Fuel	Y	y	y	y
Purchased Power Energy	Y	y	y	y
Purchased Power Capacity	Y		y	y
Environmental	Y	y	y	y
Energy Conservation			y	
New Plant Certification	Y	Integrated Resource Plan	Need Determination Process	Certification Process
Storms	Y		y	y
CWIP in Rates		New Nuclear	New Nuclear	New Baseload
Considerations				
Test Year Forward Looking	Y	y	y	y
Rate Base Avg. Original Cost	Y	y	y	For Environmental Capital
Valuation End of Period				Rate Base for PEP

Source: Company Slide Presentation

Below, we detail the regulation for each of SO's subsidiaries.

#### Georgia Power

Georgia Power is operating in accordance with a three-year accounting order that was settled and approved by the GA PSC on 12/18/2007. The settlement called for a base revenue increase of \$222 million for environmental spending recovery and a base rate increase of \$99.7 million. The company had originally requested \$406.7 million in 2008, with an alternative plan with incremental increases of \$191 million in 2009, and \$45 million in 2010. The ROE dead band range is the same as current at 10.25%–12.25%. In addition, the settlement calls for a rider which would allow for annual true-ups/downs related to environmental spending. Greater than this range, there is a two-thirds to one-third sharing of profits between customers and shareholders, respectively.

The Georgia commission is composed of five full-time commissioners who are elected to six year staggered terms in statewide elections. The chairmanship is rotated annually according to legislative stipulations; the current chairman is Doug Everett. We view Georgia as a constructive regulatory environment, despite the elected nature of the commissioners. Lauren McDonald is back on the commission after a hiatus since 2002 replacing Angela Spier. Commissioner Robert (Bobby) Baker faces re-election in 2010.

Georgia Power is required by law to file a rate case no later than June 30 of next year. July and August will likely constitute the requesting, gathering, and submittal of various data requests. The staff should issue its recommendation in late August or early September, after



which hearings will be conducted in the September/October timeframe. Cases in Georgia are filed on a forecast forward test year basis. By law Georgia Power is required to file a one year rate case, and in addition to this will likely file a recommended three-year accounting order plan. Georgia Power has done filings at the commission this way since 1995. We anticipate that the filed equity ratio will be about 51% using actual; however, it is important to note that in Georgia all short-term debt is excluded from that calculation. The Commission can adjust both the equity ratio and the ROE in its final order, so those will be two points of discussion. Historically, however, most of the discussion and any adjustments have occurred to the ROE.

Fuel recovery in Georgia is not automatic but requires a filing and a hearing before the commission to review and approve the forecast costs and the recovery of any differential balance between what was previously forecast and what was actually collected. Georgia Power is allowed to institute a fuel hedging program, which operates under a sharing mechanism whereby any benefits are allocated 75% to ratepayers and 25% to shareholders.

#### Alabama Power

Alabama Power operates under a rate stabilization plan. The current ROE range is 13%-14.5%, which has an adjusting point at 13.75%—i.e., if the ROE falls outside the specified range, rates will be reset to an ROE level of 13.75%. The RSE has been in effect for 20 years and will remain in effect until discontinued or modified as deemed necessary by the Alabama Public Service Commission. In fall 2004, the Alabama PSC also approved an environmental spending tracker, which allows for the forward-looking rate recovery of environmental spending. We do not currently anticipate a rate case to be filed for this subsidiary in the next 12-24 months.

The Commission saw the retirement of President Jim Sullivan, who chose not to seek re-election, in the past year. President Sullivan was the longest serving utility commissioner in the country, having served from 1983 to 2008. He was replaced by current President Lucy Baxley, a Democrat, and a former Lt. Governor and State Treasurer of Alabama. The company received \$168 million in a corrective rate package for 2009 and agreed not to seek base rate increases for environmental increases for 2009. Environmental increases were deferred not foregone.

#### Mississippi Power

Mississippi Power operates under PEP-4, which attaches performance enhancements around a benchmark ROE. On September 30, 2004, this benchmark ROE was set to 10.70%. Mississippi Power's last rate case concluded in 2002 and instituted a rate hike based on a 12.88% ROE. In the last PEP-4 review specifies an 11.6% ROE for Mississippi Power. We do not currently anticipate a traditional rate case to be filed for this subsidiary in the next 12-24 months. The company will make another PEP filing by the end of 2009.

Southern has proposed construction of a commercially sized IGCC plant and mine in Kemper County, Mississippi. The plant would be a mine mouth facility using locally mined lignite coal. The last cost estimate made public by Southern was \$1.2 billion for the IGCC plant and \$0.6 billion for the mine. Because the gasifier uses air blown based technology developed at SO's Wilsonville, Alabama test facility it works with low grade coal. A higher-cost oxygen blown IGCC technology would not work on low grade MS lignite coal. The plant would also capture CO<sub>2</sub> and use it in enhanced oil recovery to give the plant the same carbon dioxide profile as a natural gas CCGT plant. Merchant power suppliers in Mississippi opposed the plant before the MS PSC. The MS PSC has ruled that the plant will vetted by the commission in two phases. The first phase will be a determination of need for which the proceeding will begin on June 26 and a final decision is scheduled for October 9. The second phase will consider what options for resources are available to meet the need determined by the first phase. The various parties can propose alternatives to the IGCC facility in the second phase, but the PSC has stated that they must be detailed proposals with testimony on technology, cost, and timing. The second phase will begin on October 15 and a final decision is currently scheduled for May 1, 2010. This may slightly push back Mississippi Power's previously announced construction timeline of 2010-2013, as the company had previously estimated having full permitting by the end of 2009.

#### **Westar Energy (WR)**

Kansas regulation has become substantially more constructive in recent years with the implementation of a number of new recovery mechanisms. These include a fuel recovery clause that adjusts quarterly and covers plant performance, annual adjustments (Energy Cost Recovery Rider) for environmental spending that flows directly into rates, pre-determination for large scale projects that reduces the uncertainty of recovery, and favorable treatment of extraordinary storm damage that helps to reduce the volatility of earnings. On June 2, WR filed with the Kansas Corporation Commission (KCC) a limited rate case seeking cost recovery for investments in the second phase of its Emporia Energy Center, and two Westar-owned wind farms in Kansas that were under construction, but not in operation at the conclusion of the company's 2008 GRC. This rate review was agreed to as part of the settlement reached by all parties in the 2008 general rate case, which the KCC approved in January 2009. WR is seeking a \$19.7 million or 1.5% increase in this abbreviated filing. The same rate case parameters of 10.4% ROE and 50.8% equity component of capital will apply. The process for this rate case will be similar to a traditional rate case filing at the KCC, with the application strictly limited to costs associated with the construction and operation of wind generation owned by Westar and the second phase of Emporia Energy Center. Assuming a 240-day statutory timeframe for the rate review, an order would be expected in late January 2010.

Rate Case components include:

- New investment of \$97.5 million, including \$70.8 million for wind and \$26.7 million for Emporia Energy Center Phase II;
- Return on Plant-in-Service of \$11.6 million;

- Depreciation of \$17.2 million, including wind depreciation of \$13.5 million and Emporia Energy Center Phase II of \$3.7 million;
- Operations and maintenance expense of \$8.1 million, including \$6.4 million of wind and \$1.7 million of Emporia Energy Center Phase II; and
- Production Tax Credits provide a \$17.2 million offset in this rate increase request.

#### Update to the Environmental Cost Recovery Rider Approved

On May 29, 2009 the KCC approved an update to WR's Environmental Cost Recovery Rider (ECRR) following an audit and recommendation from KCC Staff. The KCC approved the \$32.4 million ECRR to go into effect June 1, 2009. The ECRR is a tariff that permits WR to recover costs associated with federally mandated environmental improvements to its generation facilities in a timely manner.

#### Transmission Rate Recovery

A FERC formula rate adjustment is applied annually; the KCC has approved a Transmission Delivery Charge (TDC) tariff to allow a corresponding retail adjustment, which enables timely recovery of transmission system operating and capital costs.

#### Wisconsin Energy (WEC)

Wisconsin Energy's Wisconsin Electric Power Co. (WEPCO) and Wisconsin Gas (WG) initiated a general rate case proceeding for its retail customers with the Public Service Commission of Wisconsin (PSCW) on March 17, 2009 with new rates to be effective January 1, 2010. The filing includes a \$76.5 million or 2.8% electric increase and a \$22.1 million or 3.6% gas increase, plus \$2.7 million increase for steam at WEPCO, and a \$38.9 million or 4.6% increase at Wisconsin Gas. WEC is requesting to retain a 10.75% regulatory ROE on 53% equity on a rate base valued at \$3.512 billion at WEPCO Electric, \$412.95 million rate base at WEPCO gas operation (WE Gas) and \$51.5 million in WEPCO steam operations; and 48% equity component on a rate base of \$611.5 million at WEC's Wisconsin Gas subsidiary. In an adjusted proposal filed in early July, WEC is now seeking a \$126 million electric revenue increase, an additional \$50 million from its initial electric increase request, citing the deepening recession and correspondingly lower sales. As part of the filing WEC also has requested 1) a reduction in depreciation rates concurrent with the implementation of new base rates in this proceeding; 2) certain regulatory assets currently scheduled to be fully amortized over the next four years will, instead, be amortized over the next eight years; 3) WEPCO will be permitted to continue to record 100% AFUDC for capital expenditures on environmental control projects and renewable energy projects; and, 4) WEPCO will have the option of applying for a limited reopener of this case or for deferred accounting to address any increased costs or reduced sales that would result from the enactment of recommendations of the Governor's Global Warming Task Force. We expect a PSCW Staff recommendation by September 2009 and Commission decision in the fourth quarter.

WEC's Michigan utility, Edison Sault Electric Co., filed a General Rate Case on July 2, 2009. The company is proposing a \$40 million or 33% rate increase, phased in over three stages, in 2010. The majority of the additional expenses are due to the Oak Creek Generating Units. Unlike in Wisconsin, where these costs have been gradually included in rates since 2003, Michigan does not allow power plant construction costs to be recovered until units are operational. The first phase of the increase of approximately \$20 million is scheduled to start in January 2010 to coincide with Oak Creek Unit 1's commercial operation. That 16.8% increase would also cover a change to the Michigan business tax. If the Michigan Public Service Commission agrees with Edison Sault's plan, another increase would be implemented in August 2010, when Unit 2 comes on line, and a third increase of about 15% would be implemented after the PSC finishes its audit of the application. The case requests a 10.75% return on equity.

### **Xcel Energy (XEL)**

XEL's regulatory framework continues to improve, as forward test years in Minnesota, Wisconsin, and North Dakota – along with a pending forward test year request in Colorado – as well as interim rates in the first three of those states, have the company well positioned to continue to enjoy reduced regulatory lag. Transmission, renewable, and environmental riders exist in most jurisdictions as well. Only Texas and New Mexico continue to be material challenges from a regulatory standpoint, and XEL is fortunate in that regard as well, since its Southwestern Public Service (SPS) subsidiary that operates in those states comprises only about 5% of XEL's earnings.

### **Northern States Power – Minnesota (NSP-MN)**

In Minnesota, XEL filed a base rate increase request of \$156 million in November 2008. This was based on \$4.1 billion of electric rate base, a 52.5% equity structure, and an 11% ROE. An interim increase of \$132 million went into effect at the beginning of January 2009, with the difference between XEL's request and the interim amount being owed to the last allowed ROE of 10.54% and the 11% requested in this case. Minnesota Department of Commerce testimony has been supportive of a rate increase closer to \$73 million, based on a 10.88% ROE. A ruling is expected during 3Q09.

Not including fuel recoveries, riders pertaining to about \$60 million in 2009 recoveries related to the MERP, transmission, and renewable energy mechanisms are pending before the Minnesota Public Utilities Commission (MPUC) as well.

As a final matter, NSP-MN is proposing license extensions at its Monticello and Prairie Island nuclear plants, as well as uprates of 71 MW and 164 MW, respectively. These projects are estimated to cost \$1.1 billion, with construction coming from 2009–2015. The Monticello plant has received all of its approvals except NRC approval for the uprate, which is expected as early as later this year. The Prairie Island plants still require MPUC certificates of need for the additional dry cask storage and for the uprate, both of which are expected later this year, and NRC approvals for the license extension and the uprate, which are expected in 2010.

**Northern States Power – Wisconsin (NSP-WI)**

NSP-WI is awaiting a ruling on a request for \$30.4 million in higher rates based on \$644 million of rate base, a 53.12% equity structure, and a 10.75% ROE. This case assumes a 2010 test year, and a decision is expected in December 2009.

**Public Service Company of Colorado (PSCo)**

PSCo has been busy of late, with a rate case that just concluded, and a phase 2 case just beginning. The concluded phase allowed for a \$112.2 million rate increase, versus a \$159 million revised request. The request was premised upon \$4.1 billion of rate base, a 58.08% equity structure, and an 11% ROE. Although the final order from the Colorado Public Utilities Commission (CPUC) didn't specify whether the 2009 forward test year had been granted, the size of the rate increase suggests that the commission was amenable to the general concept of allowing 2009 investments to be considered in the result, and is constructive in light of the phase 2 process that is currently under way.

Phase 2 is asking for a \$180 million increase, based on \$4.4 billion of rate base, a 58% equity structure, and an 11.25% ROE. This case assumes a 2010 test year, and a decision is expected by year end.

**Southwestern Public Service Company (SPS)**

In New Mexico, SPS recently filed an uncontested settlement that would allow a \$14.2 million rate increase, effective July 1, 2009. This was premised upon \$321 million of rate base, with a 50% equity structure and a 12% ROE. The case used a June 30, 2008 historical test year, and the terms of the settlement would prohibit SPS from filing its next base rate case until December 1, 2010. The settlement is pending approval before the NMPRC.

A base rate case in Texas that awarded a \$57.4 million rate increase was approved by the PUCT on May 21. Like the settlement in the PSCo case, this was a black box settlement that did not specify return metrics. SPS in Texas would be prohibited from filing another base rate case until February 15, 2010.

---

**Emerging Issues: Coal, Stimulus, Climate Change, DSM, & Decoupling**

---

**Coal**

Coal fueled 48.5% of net generation in the United States in 2009 and is domestically supplied. While conservation efforts and renewable sources show promise to reduce peaks and supply intermittent baseload or peaking generation capacity, for high capacity factor baseload generation the two viable options remain nuclear and coal. Nuclear is in a nascent recovery, although the first plants are not expected to be on-line until the end of the next decade. Despite short-term opposition, in the long run, coal remains the United States' largest domestic supply of energy. With the return of economic growth, it is likely that coal plants will need to be built in the country in order for supply to meet growing demand.

In our view, however, coal plants, both existing and potential new build, will become relatively more expensive as a result of environmental regulations around mercury, coal ash ponds, SO<sub>x</sub>, and NO<sub>x</sub>, and greenhouse gases. The continued push toward more stringent environmental regulation will make coal plants incrementally more expensive to run and build, and it will also likely lead to a "run or shutter" analysis based upon economics for many small older coal plants in the United States. Retrofits for environmental controls on these plants would in some scenarios be too expensive to justify keeping them running. Some of these plants also have limited available land surrounding them on which to build any emission control equipment.

The fourth quartile coal plants in the United States on average were built in 1959, run at a capacity factor of 58%, and at a heat rate of 15,549. These plants have a non-fuel O&M rate of \$18.21/MWh, almost 3x the 3rd quartile cost of \$6.64/MWh. Most of these plants are located in the Mid-Atlantic, South, and Midwest. In our view these plants could all face retirement with the coming more stringent environmental policies. These plants approach 10% of the nation's capacity which must be replaced by other baseload resources.

**Coal Ash**

In December 2008, the Kingston Plant, owned and operated by the Tennessee Valley Authority (TVA) experienced a dike failure on its coal ash pond, which allowed five million cubic yards of water and coal fly ash to cover 300 acres, 292 of which were owned by TVA. Since the incident TVA has purchased seven of the eight remaining effected acres. The cause of the failure is not yet known but ash also flowed into the nearby Emory River. The Kingston facility continued to run after the breach, albeit at a low capacity factor and currently produced ash was being mixed with clean up ash to be removed together. TVA took a charge of \$525 million that reflected the low end of the estimated immediate clean-up costs of \$525 million to \$825 million. This range does not contemplate the costs of other needed site work, or long-term clean up issues.

More broadly the Kingston incident has led to a full review by the Environmental Protection Agency (EPA) and we anticipate that further rules and regulations will eventually be

developed around the disposal and storage of coal ash waste. On March 9, 2009 the EPA released measures intended to prevent similar coal ash releases to the Kingston incident. The EPA plans to survey coal plants nationwide to gather information on structural integrity, order repairs where necessary, and develop new regulations. They released a list with 44 sites they cited as having "high hazard potential" at the end of June. Importantly, this list does not indicate any structural or safety problems at these sites, but rather reflects the likelihood of loss of human life in the event of a failure. The EPA has stated that they intend to have new regulations out for public comment by the end of 2009.

#### North Carolina Clean Air Case

In a ruling against TVA in a suit brought by North Carolina the courts determined that TVA's coal plants were a public nuisance and were blowing emissions east into that state. A federal court judge ruled in North Carolina's favor on four of TVA's plants and declined to order relief on the rest of TVA's coal fleet. The four plants affected were Bull Run (one unit), John Sevier (four units), Kingston (nine units) all in Tennessee and Widows Creek (eight units) in Alabama. The total capacity of the impacted facilities was 4,505 MW while the non-impacted facilities constituted 9,964 MW. Of particular concern was the judge's order to accelerate the timeline of already planned and in process construction of emission controls - completion of the Kingston scrubbers and SCRs by 12/31/10, scrubbers and SCRs installed at John Sevier by 12/31/11 and scrubbers and SCRs on all Widows Creek units by 12/31/13. It is worth noting that all the plants mentioned are in current compliance with clean air rules and that TVA has invested \$5.1 billion in emission reduction programs for their coal fleet from 1977 to 2008. The company estimates that a further \$3.0 billion to \$3.7 billion (\$256/kW) could be required to be spent for new clean air and mercury regulations beginning in 2011, without contemplation of carbon.

TVA is already performing some of the court order's requirements, Bull Run and Kingston emission control programs are already within the court's guidelines. The two existing scrubbers at Widows Creek are currently being modernized. The court order would essentially require TVA to accelerate the schedule for control equipment at John Sevier and the remaining units at Widows Creek. This would cost an estimated additional \$1 billion versus its current plans. Given that John Sevier is TVA's easternmost coal plant it is in a critical position for reliability in eastern Tennessee. TVA has appealed the court ruling and has announced intentions to build an \$820 million natural gas plant in eastern TN in case the appeal fails and John Sevier faces potential shut down. There are concerns with shifting from coal to natural gas including more volatile fuel input costs and actual ability to obtain and secure necessary locational supplies.

The TVA lawsuit bears watching as if the company's appeal is unsuccessful several more lawsuits by states and/or environmental groups against existing coal fired generation, even with regard to carbon emissions could come to the fore and put more baseload generating capacity at risk. The case is also instructive in that replacing fourth quartile coal plants with natural gas would potentially create localized supply constraints, increase the demand and price for natural gas as well as its volatility. This would in turn impact the price, volatility, and potentially the reliability of electricity. Over the longer term, with coming mercury and

carbon regulations similar situations to TVA's could play out on a national scale without the courts, as pure economic decisions begin to force contemplation of shut downs.

### **Stimulus Bill**

The stimulus bill that was passed in February 2009 provides approximately \$39 billion for energy programs, primarily focused on efficiency, renewable generation, and electric transmission and distribution.

Of this, \$16.8 billion is earmarked for Department of Energy efficiency and renewable energy programs, including \$3.2 billion for energy efficiency and conservation block grants, \$5 billion for weatherization assistance, \$2 billion for advanced battery manufacturing for electric vehicles, and \$3.1 billion for state energy programs. The language surrounding the conditions for the State Energy Efficiency Grants program puts forth some potentially industry changing possibilities. The amendments declare that states receiving funds from the program must have their governor confirm that they have assurances from the state regulatory authorities that they will seek to implement policy that aligns utility financial incentives with more efficient customer use. If this is enforced as strictly and literally as possible, one could take it as indicating that commissions will need to move toward the decoupling of revenues from sales in order to receive the stimulus funds.

In addition, the bill includes \$4.5 billion of new funding for a range of electric delivery and energy reliability activities, \$3.4 billion in funding for fossil energy research including clean coal and industrial carbon capture, and finally, an additional \$6 billion for the DOE loan guarantee program that is available only for renewable energy, electric power transmission, and leading edge transportation biofuel projects. This caveat of the loan guarantee program effectively excludes clean coal and advanced nuclear projects from the \$6 billion in additional funding that is being made available. The additional money also carries the stipulation that construction must begin by September 30, 2011, and by also removing the language that previously made only "innovative" technologies eligible, established technologies like wind, solar, and electric transmission can also now benefit.

Specific to transmission, the stimulus bill also directs the DOE to expand its 2009 National Electric Transmission Congestion Study to include an analysis of the significant potential sources of renewable energy that are constrained in accessing markets by a lack of adequate transmission capacity; an analysis of the reasons for failure to develop adequate transmission capacity; recommendations for achieving adequate transmission capacity; and finally, to what extent state and federal level legal challenges are delaying transmission construction. The potential implications from the language included in the bill regard how it will affect the role of the FERC and its potentially increased siting powers.

Some of the most interesting components of the stimulus bill are on the tax incentive side and are major positives for companies with renewable exposure. Most significantly the bill:

Extended the in-service date for wind production tax credits (PTCs) to 12/31/2012, and for other renewable sources (closed-loop biomass, open-loop biomass, geothermal, small



irrigation, hydropower, landfill gas, waste-to-energy, and marine renewable facilities) to 12/31/2013;

Allowed the temporary election of Investment tax credits (ITCs) in lieu of PTCs for wind facilities placed in-service by 12/31/2012, and for other qualifying facilities placed in-service by 12/31/2013; and

Created the option for taxpayers to elect to receive a treasury grant equal to 30% (10% in some cases) of the cost of the renewable energy facility (assuming construction begins in 2009 or 2010) 60 days after the facility is placed in-service or after the grant application is filed.

While it still remains unclear in terms of when money from the stimulus program will begin to flow in any meaningful way, the consensus view is implementation is expected to begin in July, 2009.

**Climate Change: The American Clean Energy and Security Act of 2009 (ACES)**

Below we provide a summary by topic of the ACES legislation (a.k.a. the Waxman/Markey bill):

**Renewable Portfolio Standard**

The combined renewable and electric savings requirement starts at 6% in 2012 and rises to 20% in 2020. Up to one-quarter of the 20% requirement can be met with savings. Upon receiving and responding to a request from a state's governor, the Federal Energy Regulatory Commission can increase the energy efficiency portion so that renewables would be 12% and efficiency 8% to meet the 20% requirement. These regulations are for retail electric suppliers in excess of 4 MWhrs.

The definition of renewable has been expanded and includes wind, solar, geothermal, hydro, biomass and qualified waste-to-energy. An electric supplier's requirement is reduced by existing hydro, new nuclear and CO2 sequestered fossil-fueled plants. The penalty in lieu of compliance is a renewable energy credit at \$25/MWhr.

**CO2 Sequestration**

If approved by entities representing two-thirds of fossil-based delivered electricity, the Carbon Storage Research Corporation would be formed. It would be funded by retail customers of fossil-based electricity at \$1 billion annually. It would be 4.3 cents per MWhr for coal, 3.2 cents per MWhr for oil, and 2.2 cents per MWhr for gas. Fifty percent of the funds shall be provided in the form of grants to projects with funds already committed to IGCC with sequestration. New plants from 2009-2013 must sequester 50% of CO2 with 65% by 2020.

Efficiency

New building codes state 30%-50% higher energy efficiency targets from 2010-2016. Rebates up to \$7,500 toward purchases of new Energy Star-rated manufactured homes for low-income families in pre-1976 manufactured homes.

Global Warming Pollution Reduction

Economy-wide reduction goal is to reduce global warming pollution to 97% of 2005 levels by 2012, 83% by 2020, 58% by 2030, and 17% by 2050. Methane scores 25 x 1 CO2 credit. Offsets are 2 billion metric tons split evenly domestic and foreign. Emission levels can be increased by Administrator by up to 1.5 billion metric tons. Strategic reserve is 1% of total from 2012-2019, 2% for 2020-2029, and 3% for 2030-2050. Initial strategic reserve price floor is \$28/ton for 2012. Establishes an Offsets Integrity Advisory Board; otherwise, EPA establishes and runs the offsets program. Allowances are phased out for energy users from 2026-2030. Of the 38% for LDC rate reductions in 2012, 30% is electric, 7% is for gas, and 1% for other (government).

Figure 41: Emission Allocations & Allowances

Emission Allocations	Allocations		Fossil Fuel Companies in 2020	Emission Allowances (in millions)			
	2012	2020		2012	2030	2045	2050
Fossil Fuel and Industry	8%	25%	Energy Intensive Industries	13%	2012 4,627	2030 3,533	
LDC Rate Reductions	38%	36%	Coal Plant Operators	6%	2013 4,544	2035 2,908	
LDC and State Efficiency	1%	4%	Coal CCS	5%	2014 5,099	2040 2,284	
Clean Energy and Climate Programs	16%	10%	Oil Refineries	2%	2015 5,003	2045 1,560	
International	7%	7%			2020 5,056	2046 1,535	
Deficit Reduction	14%	2%	Clean Energy and Climate (at various times)		2026 4,284		
Consumer Rebates	16%	16%	Energy Efficiency/Renewable	9.5%			
			Clean Energy Research	1.5%			
			Clean Vehicles	3.0%			
			Domestic Fuels	2.0%			
			Workers	0.5%			
			Domestic Adaptation	0.8%			
			Wastewater	1.0%			

Source: American Clean Energy and Security Act of 2009; Barclays Capital estimates.

Electric Distribution Companies

Not later than 6/30/2011 and each calendar year through 2028, the Administrator would distribute 50% of allowances based on emissions of generation delivered at retail. For 2012-2013 the level would be based on 2006-2008 or any three consecutive years from 1999-2008. For 2014+, allocation would be based on the prior discussion or any three years from 2009-2012, or 2012 only if new generation is placed in service. The other 50% of distributions would be based on average annual retail electric sales from 2006-2008, unless the company selects any three consecutive years from 1999-2008. The distribution formula would be updated every three years. The allowances must go to ratepayer benefit, ratably among classes. The allowances cannot be used for a "rebate" and must track usage. The allowances cannot be authorized until the state regulatory body completes a proceeding authorizing their use.

### **Demand Side Management (DSM)**

As talk around efficiency and conservation intensifies, we wanted to call attention to the fact that some states have made demand reduction a real point of emphasis and have pushed varying initiatives with a great deal of vigor. For instance, Michigan's implementation of a customer surcharge in order to pre-fund efficiency expenditures is among the more pro-active examples of a trend we expect to broaden to more and more states in the near future. Promoting these efforts are aggressive policy measures – at both the state and federal levels – that are meant to further encourage the implementation of efficiency technology, with a current example being the stimulus bill and the money being earmarked for states' "smart grid" and other efficiency programs.

When we looked at DTE's proposed conservation program (\$110 million in total, two-thirds of which is at Detroit Edison) we found that when thinking about and valuing DetEd's 1% in forecasted load reduction as an avoided generation plant (assuming a 60% capacity factor), we arrived at a value of \$800/kw. EIX's regulated subsidiary, Southern California Edison, however, had an implied value of \$1,700/kw (\$1.7 billion to reduce 1,000 MW of load) for its metering program.

We believe there are two logical takeaways from this: First, these early-stage programs will likely test the aggressiveness of the different states proposing and implementing this policy. For instance, SoCalEd currently works to achieve a 5% reduction in peak load, while its metering program would result in an additional 5% reduction. These are lofty targets, and stand in contrast to the more modest goals that have been set by many states. Second, in states like California, where generation is more constrained and aggressive renewable and reduction goals are in place, the cost of demand reduction should tend to be higher than it is in Michigan, for example. In other words, the avoided costs in California are higher than they are in Michigan, so the cost of the programs will naturally tend to be more expensive before running up against significant regulatory or ratepayer pushback.

We believe that reductions of about 1% annually – which have been the goals we've seen talked about in many jurisdictions – will be achievable for at least the first four to five years with targeted spending on very simple programs. These could involve such basic things as the weatherization of homes (\$5 billion of the stimulus bill already has been earmarked for this), the switching of light bulbs, and new design standards for buildings under construction. We think that reductions beyond the 5% level are going to require substantially greater investment to get to the next level of incremental benefit, with costs likely rising to match the level of aggressiveness. The direction from the federal government as we work through national energy policy this year will also codify the larger goals, and therefore give us a better sense for the acceptable levels of spending.

### **Application of Decoupling Mechanisms on the Rise**

Although initially predominantly employed by the gas utility industry, revenue decoupling has gained momentum among U.S. electric utilities as well. Ten states have approved a revenue decoupling mechanism for electric utilities: California, Connecticut, Idaho,

Maryland, Massachusetts, Michigan, Minnesota, New York, Oregon, Vermont, and Wisconsin. Three are pending approval – Delaware, Hawaii and New Hampshire – according to the Institute for Electric Efficiency. Revenue decoupling currently is in use in six states: California, Connecticut, Idaho, Maryland, New York and Oregon.

One driver behind decoupling is passed and pending federal legislation – specifically the American Recovery and Reinvestment Act of 2009 – and the revised climate change bill drafted by Reps. Henry Waxman, D-Calif., and Edward Markey, D-Mass, which includes targets for energy efficiency resource standards, renewable energy standards, and a cap on carbon emissions. While the federal stimulus bill does not specifically require decoupling, incentives need to be in place for utilities to engage in additional energy efficiency initiatives. The stimulus bill provides roughly \$3 billion in state energy grants, and the Department of Energy has the authority to allocate these funds to the states, so long as the governor has been assured that the PUC in that state will implement regulatory policy that aligns utility financial incentives with the successful implementation of energy efficiency measures.

Decoupling has encountered some resistance from state legislatures and commissions to consumer advocates, likely because of the notion that the utility is not hurt by reduced consumption. Conversely, however, through decoupling, a utility will not see significant revenues from an increase in energy consumption. Generally accepted rate-setting practices create an inherent financial disincentive for utilities to participate in conservation programs, given that a successful energy usage reduction program would have a direct negative impact on utility revenues, and may require the utility to file a new general rate case in an attempt to recoup the related reduction in earnings. As environmental concerns have intensified, many states have adopted compulsory energy conservation standards and consequently, the need to mitigate the possible negative impacts of these programs has accelerated. Decoupling mechanisms are now being applied in some jurisdictions to encourage utilities to invest in mandated conservation programs without the associated potential negative effect on earnings. The decoupling mechanism enables the utility to defer fixed distribution costs that the utility may fail to recoup through its volumetric charges due to customers' participation in conservation programs. The utility is allowed to recover the deferrals associated with the unrecovered fixed costs through a surcharge over a period of time, generally with carrying charges on the deferred amounts.

An alternative to decoupling is a Straight Fixed Variable rate design, where a company's fixed costs are fully collected through the customer's fixed monthly charge. Consequently, the utility's fixed costs will always be recovered, regardless of the success of a company's conservation program, since the only volumetric charge is for the commodity. Therefore, by cutting back consumption, the customer would save only on the commodity portion of the monthly bill. Since these costs are also avoidable by the utility, earnings would not be negatively impacted. While the straight fixed variable rate design methodology provides a

direct cause-and-effect relationship between usage and customers bill levels, and is easier to administer than a decoupling mechanism, one noted drawback is that customer rate designs tend to include relatively low fixed charges, and shifting to a fully fixed rate would likely result in rate increases for the residential customers.

Figure 42: Barclays Capital Power and Utilities Coverage Universe

## REGULATED COMP SHEET

Investment Opinion	Ticker	Company	Current Price 07/16/09	Indicated Annual Dividend	Expected		Earnings per Share			5 Year Est. EPS Growth	2008A Price/ Earnings	2009E Price/ Earnings	2010E Price/ Earnings
					Annual Dividend Growth	Current Yield	2008A	2009E	2010E				
2-EW	LNT	Alliant Energy	\$26.28	\$1.50	10.0%	6.7%	\$2.64	\$2.25	\$2.55	2%	10.3x	11.7x	10.3x
1-OW	AEP	American Electric Power	\$29.95	\$1.58	4.0%	5.2%	\$3.24	\$2.91	\$3.03	2%	9.2x	10.3x	9.9x
1-OW	CMS	CMS Energy Corp	\$12.33	\$0.50	6.6%	4.1%	\$1.25	\$1.27	\$1.33	7%	9.8x	9.7x	9.3x
2-EW	ED	Consolidated Edison	\$37.89	\$2.36	1.0%	6.3%	\$3.00	\$3.19	\$3.30	2%	12.6x	11.8x	11.4x
1-OW	DPL	DPL Inc	\$23.85	\$1.14	5.0%	4.8%	\$2.12	\$2.23	\$2.65	15%	11.2x	10.6x	8.9x
2-EW	DTE	DTE Energy Co	\$32.73	\$2.12	0.7%	6.5%	\$2.90	\$2.96	\$3.22	0%	11.3x	11.1x	10.2x
1-OW	DUK	Duke Energy Corp	\$14.77	\$0.94	4.0%	6.4%	\$1.21	\$1.23	\$1.30	1%	12.2x	12.0x	11.4x
2-EW	GXP	Great Plains Energy	\$15.54	\$0.83	2.0%	5.3%	\$1.18	\$1.12	\$1.30	2%	13.4x	13.9x	12.0x
3-UW	HE	Hawaiian Electric Inds	\$17.55	\$1.24	0.0%	7.1%	\$1.49	\$1.35	\$1.38	-1%	11.8x	13.0x	12.7x
2-EW	ITC	ITC Holdings	\$43.58	\$1.22	4.0%	2.8%	\$2.19	\$2.27	\$2.56	17%	18.8x	19.2x	17.6x
2-EW	NI	NISource Inc	\$12.22	\$0.92	0.0%	7.5%	\$1.27	\$1.05	\$1.04	-6%	8.8x	11.6x	11.8x
2-EW	NU	Northeast Utilities	\$22.21	\$0.95	5.6%	4.3%	\$1.87	\$1.79	\$2.10	13%	11.9x	12.4x	10.5x
2-EW	NST	NSTAR	\$30.93	\$1.50	7.0%	4.8%	\$2.22	\$2.40	\$2.58	5%	13.9x	12.9x	12.6x
1-OW	NVE	NV Energy	\$11.29	\$0.40	10.6%	3.5%	\$0.89	\$0.91	\$1.18	13%	12.7x	12.4x	8.6x
1-OW	PCG	PG&E Corp	\$37.73	\$1.68	7.9%	4.5%	\$2.95	\$3.18	\$3.48	8%	12.8x	11.9x	10.9x
2-EW	PGN	Progress Energy	\$37.75	\$2.48	1.0%	6.6%	\$2.88	\$2.96	\$3.13	-1%	12.7x	12.8x	12.1x
2-EW	PNM	PNM Resources	\$11.84	\$0.50	0.0%	4.3%	\$0.12	\$0.48	\$0.85	-12%	97.0x	25.3x	13.7x
	RS	Pinnacle West Capital	\$30.88	\$2.10	0.0%	6.8%	\$2.29	\$2.30	\$2.74	-4%	13.5x	13.4x	11.3x
2-EW	POM	Pepco Holdings	\$13.88	\$1.08	2.0%	7.8%	\$1.93	\$1.10	\$1.43	-1%	7.2x	12.8x	9.7x
1-OW	POR	Portland General	\$20.08	\$1.02	7.5%	5.1%	\$1.71	\$1.80	\$1.87	13%	11.7x	11.2x	10.7x
2-EW	SO	Southern Co	\$31.80	\$1.76	5.0%	6.5%	\$2.37	\$2.30	\$2.45	3%	13.4x	13.8x	13.0x
2-EW	SRE	Sempra Energy	\$48.99	\$1.58	10.0%	3.2%	\$4.43	\$4.40	\$5.05	7%	11.1x	11.1x	9.7x
2-EW	TE	TECO Energy Inc	\$12.09	\$0.80	4.7%	6.6%	\$0.86	\$1.08	\$1.21	0%	14.1x	11.2x	10.9x
2-EW	WR	Westar Energy	\$19.08	\$1.20	2.0%	6.3%	\$1.27	\$1.85	\$1.75	3%	16.0x	11.6x	10.9x
1-OW	WEC	Wisconsin Energy Corp	\$41.44	\$1.35	3.0%	3.3%	\$3.03	\$3.15	\$3.90	10%	13.7x	13.2x	10.8x
2-EW	XEL	Xcel Energy	\$18.94	\$0.95	3.0%	5.0%	\$1.45	\$1.52	\$1.61	8%	13.1x	12.5x	11.8x
<b>UTILITIES (26)</b>				<b>4.5%</b>	<b>5.4%</b>				<b>3.8%</b>	<b>12.8x</b>	<b>12.3x</b>	<b>11.3x</b>	
<b>S&amp;P 500 Index</b>			<b>940.7</b>	<b>\$28.48</b>		<b>3.0%</b>	<b>\$68.80</b>	<b>\$55.96</b>	<b>\$68.45</b>	<b>-6.0%</b>	<b>13.7x</b>	<b>16.8x</b>	<b>13.7x</b>

Source: Company disclosures, FactSet, Barclays Capital estimates

## POWER COMP SHEET

Rating	Ticker	Company	Current Price 07/16/09	Div. Yield	Open EBITDA - '10	Current EBITDA - '10	Earnings per Share	PE multiples	Open PE - '10	FCF Yield/EV									
1-OW	AES	AES Corporation	\$12.09	0.0%	\$13	4%	\$3,290	7.2x	\$3,352	7.1x	\$0.99	\$0.97	\$1.08	12.5x	11.2x	\$1.04	11.6x	-3.6%	1.2%
1-OW	AZE	Allegheny Energy	\$29.04	2.4%	\$40	60%	\$1,721	5.0x	\$1,338	6.4x	\$2.30	\$2.20	\$2.85	11.4x	8.8x	\$4.21	5.9x	1.2%	4.2%
2-EW	AEE	American Corp.	\$24.81	6.3%	\$26	6%	\$2,008	8.3x	\$2,161	7.8x	\$2.69	\$2.83	\$2.70	8.7x	8.1x	\$2.21	11.1x	-2.9%	-3.3%
2-EW	CPN	Celina Corp.	\$11.47	6.0%	\$9	-30%	\$1,188	10.3x	\$1,081	11.2x	(\$0.93)	\$0.42	(\$0.14)	27.5x	NM	\$0.00	NM	3.8%	2.7%
2-EW	CEG	Constellation Energy Corp	\$27.89	3.4%	\$43	54%	\$1,729	6.3x	\$1,720	6.4x	\$1.67	\$3.15	\$3.18	6.3x	8.8x	\$3.21	8.7x	1.9%	0.2%
1-OW	GVA	Covanta Holdings	\$17.66	6.8%	\$18	-16%	\$565	7.7x	\$510	7.2x	\$9.90	\$9.74	\$1.00	23.9x	17.7x	\$8.93	17.8x	2.4%	2.8%
2-EW	D	Dominion Resources Inc	\$33.17	4.8%	\$33	5%	\$4,654	7.8x	\$5,034	6.3x	\$3.18	\$3.08	\$3.18	10.8x	10.4x	\$2.69	12.3x	-0.3%	0.3%
2-EW	DYN	Dynegy Inc.	\$7.25	9.0%	\$4	113%	\$495	11.9x	\$766	7.5x	\$3.03	(\$0.06)	\$0.05	NM	NM	(\$0.18)	NM	0.7%	5.3%
2-EW	EDX	Edison International	\$51.45	3.9%	\$14	38%	\$3,654	6.2x	\$4,981	4.7x	\$3.84	\$2.88	\$1.22	10.8x	9.8x	\$1.92	16.4x	-4.9%	-3.5%
1-OW	ETR	Entergy Corp	\$16.84	4.0%	\$111	47%	\$3,293	8.8x	\$3,800	6.9x	\$9.51	\$8.78	\$7.28	11.2x	10.4x	\$5.58	13.6x	6.3%	6.7%
RS	EDC	Eaton	\$51.93	3.9%	N/A	N/A	\$5,671	7.7x	\$6,850	6.2x	\$4.20	\$4.02	\$4.28	12.9x	12.1x	\$3.84	14.3x	8.5%	6.9%
1-OW	FE	FretEnergy Corp	\$49.80	5.4%	\$58	37%	\$3,765	8.8x	\$3,510	7.4x	\$4.57	\$3.75	\$3.47	10.5x	11.8x	\$3.93	10.4x	3.3%	3.4%
1-OW	FPL	FPL Group Inc	\$57.37	3.1%	\$69	21%	\$4,489	8.2x	\$4,793	6.4x	\$3.94	\$4.28	\$4.76	13.4x	12.1x	\$3.96	14.5x	2.7%	4.7%
2-EW	MIR	Mirant Corp	\$18.16	0.0%	\$9	-42%	\$461	7.8x	\$553	4.8x	\$2.60	\$2.68	\$1.53	8.3x	18.8x	\$0.12	NM	-4.5%	-1.3%
RS	NRG	NRG Energy	\$24.72	0.0%	N/A	N/A	\$1,798	6.8x	\$2,272	6.5x	\$2.62	\$2.92	\$2.41	8.5x	10.3x	\$1.10	22.5x	7.7%	6.6%
2-EW	ORA	Ormat Technologies	\$39.11	9.5%	\$33	-16%	\$168	12.7x	\$169	12.5x	\$1.12	\$1.20	\$1.48	32.6x	28.8x	\$1.54	25.4x	3.7%	8.0%
1-OW	PPL	PPL Corporation	\$32.50	4.2%	\$41	25%	\$3,058	6.8x	\$3,078	6.3x	\$2.02	\$1.73	\$3.52	18.0x	8.3x	\$3.57	9.2x	1.2%	2.6%
1-OW	PEG	Public Service Entrp Group	\$32.47	4.1%	\$41	26%	\$4,362	8.4x	\$4,178	8.6x	\$2.92	\$3.11	\$3.12	10.4x	10.4x	\$4.09	7.9x	3.3%	3.3%
2-EW	RRI	RRI Energy, Inc.	\$5.02	0.0%	\$11	110%	\$413	6.0x	\$597	4.9x	(\$0.13)	(\$0.66)	\$0.18	NM	27.9x	\$0.21	NM	-8.2%	12.0%
<b>Group Average (19)</b>			<b>3.4%</b>	<b>18.6%</b>		<b>7.8x</b>	<b>6.8x</b>		<b>12.8x</b>	<b>10.8x</b>	<b>12.1x</b>	<b>2.6%</b>	<b>3.4%</b>						

Source: Barclays Capital estimates, FactSet

Source: Barclays Capital Estimates, FactSet, Company Disclosures

## Appendix

Figure 43: 2005 Rate Case Outcomes

Date	Company	State	Allowed ROE	Yield on 10-Year Treasury	Spread (bps)	Yield on Moodys Baa	Spread (bps)
01/06/05	South Carolina Electric & Gas	SC	10.70%	4.29%	641	6.13%	457
01/28/05	Aquila Networks-WPK	KS	10.50%	4.16%	634	5.91%	459
02/18/05	Puget Sound Energy	WA	10.30%	4.27%	603	5.89%	441
02/25/05	PacifiCorp	UT	10.50%	4.27%	623	5.89%	461
03/10/05	Empire District Electric	MO	11.00%	4.48%	652	5.99%	501
03/18/05	Dominion North Carolina Power	NC	-	-	-	-	-
03/24/05	Consolidated Edison of NY	NY	10.30%	4.60%	570	6.18%	412
03/31/05	Texas-New Mexico Power	TX	10.25%	4.50%	575	6.14%	411
	1st Quarter Averages		10.51%	4.37%	614	6.02%	449
04/04/05	Central Vermont Public Service	VT	10.00%	4.47%	553	6.12%	388
04/07/05	Arizona Public Service	AZ	10.25%	4.49%	576	6.14%	411
05/02/05	Public Service Co. of Oklahoma	OK	-	-	-	-	-
05/18/05	Entergy Louisiana	LA	10.25%	4.07%	618	5.99%	428
05/18/05	Wisconsin Electric Power	WI	-	-	-	-	-
05/25/05	Savannah Electric & Power	GA	10.75%	4.08%	657	5.99%	476
05/26/05	Atlantic City Electric	NJ	9.75%	4.08%	567	5.99%	376
05/26/05	Idaho Power	ID	-	-	-	-	-
06/01/05	Jersey Central Power & Light	NJ	9.75%	3.91%	584	5.82%	393
06/08/05	Public Service New Hampshire	NH	9.62%	3.95%	567	5.77%	385
	2nd Quarter Averages		10.05%	4.15%	650	5.87%	408
07/19/05	Wisconsin Power & Light	WI	11.50%	4.20%	730	5.98%	552
07/22/05	PacifiCorp	ID	-	-	-	-	-
08/05/05	Cap Rock Energy	TX	11.75%	4.40%	735	6.07%	568
08/15/05	AEP Texas Central	TX	10.13%	4.27%	586	5.98%	415
09/28/05	PacifiCorp	OR	10.00%	4.26%	574	6.08%	392
	3rd Quarter Averages		10.85%	4.28%	656	6.03%	482
12/09/05	Empire District Electric	KS	-	-	-	-	-
12/12/05	Madison Gas & Electric	WI	11.00%	4.56%	644	6.42%	458
12/13/05	OGE Electric Service	OK	10.75%	4.54%	621	6.42%	433
12/16/05	Pacific Gas & Electric	CA	11.35%	4.45%	680	6.30%	505
12/16/05	San Diego Gas & Electric	CA	10.70%	4.45%	625	6.30%	440
12/16/05	Southern California Edison	CA	11.60%	4.45%	715	6.30%	530
12/21/05	Cincinnati Gas & Electric	OH	10.29%	4.49%	580	6.33%	398
12/21/05	Avista	WA	10.40%	4.49%	591	6.33%	407
12/22/05	Consumers Energy	MI	11.15%	4.44%	671	6.27%	488
12/22/05	Wisconsin Public Service	WI	11.00%	4.44%	656	6.27%	473
12/28/05	Westar Energy North	KS	10.00%	4.38%	562	6.20%	380
12/28/05	Kansas Gas & Electric	KS	10.00%	4.38%	562	6.20%	380
12/28/05	Dayton Power & Light	OH	-	-	-	-	-
12/30/05	NSTAR Electric	MA	-	-	-	-	-
	4th Quarter Averages		10.75%	4.46%	629	6.30%	446
	<b>2005 Average</b>		<b>10.54%</b>	<b>4.32%</b>	<b>622</b>	<b>6.08%</b>	<b>448</b>

Source: SNI Financial, Federal Reserve

Figure 44: 2006 Rate Case Outcomes

Date	Company	State	Allowed ROE	Yield on 10-Year Treasury	Spread (bps)	Yield on Moody's Baa	Spread (bps)
01/05/06	Northern States Power	WI	11.00%	4.38%	664	6.20%	480
01/25/06	Wisconsin Electric Power	WI	--	--	--	--	--
01/27/06	United Illuminating	CT	9.75%	4.52%	523	6.30%	345
02/23/06	Aquila Networks-MPS	MO	--	--	--	--	--
02/23/06	Aquila Networks-L&P	MO	--	--	--	--	--
03/03/06	Interstate Power & Light	MN	10.39%	4.68%	571	6.35%	404
03/14/06	Kentucky Power	KY	--	--	--	--	--
03/24/06	PacifiCorp	WY	--	--	--	--	--
03/29/06	Entergy Gulf States	LA	--	--	--	--	--
	1st Quarter Averages		10.38%	4.52%	586	6.28%	410
04/17/06	PacifiCorp	WA	10.20%	5.01%	519	6.71%	349
04/18/06	MidAmerican Energy	IA	11.90%	4.99%	691	6.69%	521
04/26/06	Sierra Pacific Power	NV	10.60%	5.12%	548	6.76%	384
05/12/06	Idaho Power	ID	--	--	--	--	--
05/17/06	Southern California Edison <sup>(1)</sup>	CA	11.60%	5.16%	644	6.82%	478
06/06/06	Delmarva Power & Light	DE	10.00%	5.01%	499	6.66%	334
06/27/06	Upper Peninsula Power	MI	10.75%	5.21%	554	6.91%	384
	2nd Quarter Averages		10.84%	5.08%	576	6.78%	408
07/08/06	Maine Public Service	ME	10.20%	5.19%	501	6.85%	335
07/24/06	Central Hudson Gas & Electric	NY	9.60%	5.05%	455	6.74%	286
07/26/06	Appalachian Power	WV	10.50%	5.04%	546	6.72%	376
07/28/06	Commonwealth Edison	IL	10.05%	5.00%	505	6.87%	338
08/23/06	New York State Electric & Gas	NY	9.55%	4.82%	473	6.54%	301
08/31/06	Detroit Edison	MI	11.00%	4.74%	626	6.47%	453
09/01/06	Northern States Power	MN	10.54%	4.73%	581	6.46%	408
09/05/06	CenterPoint Energy Houston Elec	TX	--	--	--	--	--
09/14/06	PacifiCorp	OR	10.00%	4.79%	521	6.49%	351
	3rd Quarter Averages		10.18%	4.92%	526	6.62%	356
10/06/06	Unit Energy Systems	NH	9.87%	4.70%	497	6.43%	324
10/27/06	Entergy New Orleans	LA	--	--	--	--	--
11/21/06	Delmarva Power & Light	DE	--	--	--	--	--
11/21/06	Central Illinois Light	IL	10.12%	4.58%	554	6.18%	394
11/21/06	Central Illinois Public Service	IL	10.08%	4.58%	550	6.18%	390
11/21/06	Illinois Power	IL	10.08%	4.58%	550	6.18%	390
12/01/06	Duquesne Light	PA	--	--	--	--	--
12/01/06	PacifiCorp	UT	10.25%	4.43%	582	6.08%	417
12/01/06	Public Service of Colorado	CO	10.50%	4.43%	607	6.08%	442
12/04/06	Kansas City Power & Light	KS	--	--	--	--	--
12/07/06	Central Vermont Public Service	VT	10.75%	4.49%	626	6.13%	452
12/14/06	Western Massachusetts Electric	MA	--	--	--	--	--
12/18/06	PacifiCorp	ID	--	--	--	--	--
12/21/06	Duke Energy Kentucky	KY	--	--	--	--	--
12/21/06	Empire District Electric	MO	10.90%	4.55%	635	6.23%	467
12/21/06	Kansas City Power & Light	MO	11.25%	4.55%	670	6.23%	502
12/22/06	Green Mountain Power	VT	10.25%	4.63%	562	6.30%	385
12/28/06	Black Hills Power	SD	--	4.70%	--	--	--
	4th Quarter Averages		10.39%	4.67%	582	6.28%	418
	<b>2006 Averages</b>		<b>10.45%</b>	<b>4.77%</b>	<b>597</b>	<b>6.47%</b>	<b>398</b>

(1) ROE was determined by previously decided cost of capital decision.

Source: SNL Financial, Federal Reserve



Figure 45: 2007 Rate Case Outcomes

Date	Company	State	Allowed ROE	10-Year Treas. Yield	Spread (bps)	Moody's Baa Yield	Spread (bps)
01/05/07	Oklahoma Gas And Electric	AR	10.00%	4.65%	535	6.25%	375
01/11/07	Wisconsin Power & Light Co.	WI	10.80%	4.74%	606	6.33%	447
01/11/07	Pennsylvania Electric Co.	PA	10.10%	4.74%	536	6.33%	377
01/11/07	Metropolitan Edison Co.	PA	10.10%	4.74%	536	6.33%	377
01/12/07	Portland General Electric Co.	OR	10.10%	4.77%	533	6.26%	374
02/09/07	PPL Gas Utilities	PA	10.40%	4.73%	567	6.28%	412
02/15/07	Pacific Gas and Electric Co.	CA	11.35%	4.54%	681	6.24%	511
03/20/07	Delmarva Power & Light Co.	DE	10.25%	4.56%	569	6.27%	398
03/22/07	Rockland Electric Company	NJ	9.75%	4.60%	515	6.35%	340
03/22/07	Southern Union Co.	MO	10.50%	4.60%	590	6.35%	415
	1st Quarter Averages		10.35%	4.65%	569	6.31%	404
05/15/07	Appalachian Power	VA	10.00%	4.71%	529	6.38%	364
05/17/07	Aquila (HPS)	MO	10.25%	4.78%	549	6.40%	395
05/17/07	Aquila (L&P)	MO	10.25%	4.78%	549	6.40%	395
05/22/07	Monongahela Pow/Potomac Ed	WV	10.50%	4.83%	587	6.45%	404
05/22/07	Unicom Electric	MO	10.20%	4.83%	537	6.46%	374
05/23/07	Nevada Power	NV	10.70%	4.86%	584	6.49%	421
05/25/07	Public Service of New Hampshire	NH	9.87%	4.86%	481	6.48%	319
08/05/07	Cascade Natural Gas	OR	10.10%	4.98%	512	6.55%	355
08/13/07	Northern States Power	ND	10.75%	5.20%	555	6.78%	397
08/15/07	Entergy Arkansas	AR	9.90%	5.18%	474	6.76%	314
08/21/07	Padcoop	WA	10.20%	5.18%	504	6.76%	344
08/22/07	Appalachian Power	WV	10.50%	5.14%	538	6.74%	376
08/29/07	Arizona Public Service	AZ	10.75%	5.12%	563	6.72%	403
08/29/07	Yankee Gas Services	CT	10.10%	5.03%	507	6.62%	348
08/29/07	Public Service of New Mexico	NM	9.53%	5.03%	450	6.62%	291
	2nd Quarter Averages		10.23%	4.96%	526	6.57%	365
07/03/07	Public Service of Colorado	CO	10.25%	5.05%	520	6.65%	360
07/12/07	Granite State Electric	NH	9.87%	5.13%	454	6.72%	295
07/13/07	Arkansas Western Gas	AR	9.50%	5.11%	439	6.70%	280
07/19/07	Delmarva Power & Light	MD	10.00%	5.04%	496	6.63%	337
07/19/07	Potomac Electric Power	MD	10.00%	5.04%	496	6.63%	337
07/24/07	Aquila	NE	10.40%	4.94%	548	6.59%	381
08/01/07	Southern Indiana Gas & Electric	IN	10.15%	4.78%	538	6.62%	353
08/15/07	Southern Indiana Gas & Electric	IN	10.40%	4.89%	571	6.72%	368
08/21/07	Consumers Energy	MI	-	4.60%	-	-	-
08/28/07	Columbia Gas of Kentucky	KY	10.50%	4.57%	593	6.62%	388
09/10/07	Northern States Power - MN	MN	9.71%	4.34%	537	6.47%	324
09/19/07	Washington Gas & Light	VA	10.00%	4.53%	547	6.64%	338
09/25/07	Consolidated Edison of NY	NY	9.70%	4.63%	507	6.65%	305
	3rd Quarter Averages		10.02%	4.80%	520	6.64%	339
10/08/07	Atmos Energy	TN	10.48%	4.65%	583	6.69%	389
10/09/07	Public Service of Oklahoma	OK	10.00%	4.57%	533	6.57%	343
10/18/07	Orange and Rockland Utilities	NY	9.10%	4.62%	458	6.46%	284
10/19/07	Delta Natural Gas	KY	10.50%	4.41%	609	6.38%	412
10/25/07	CenterPoint Energy Resources	AR	9.65%	4.37%	528	6.36%	329
10/31/07	Electric Transmission Texas	TX	9.98%	4.48%	548	6.47%	349
11/15/07	Washington Gas & Light	MD	10.00%	4.17%	583	6.39%	361
11/20/07	Arkansas Oklahoma Gas	AR	9.90%	4.08%	584	6.41%	349
11/27/07	UNSGas	AZ	10.00%	3.95%	605	6.36%	364
11/29/07	Cheyenne Light, Fuel, & Power	WY	10.90%	3.94%	698	6.40%	450
12/06/07	Kansas City Power & Light	MO	10.75%	4.02%	673	6.61%	414
12/13/07	AEP Central Texas	TX	9.96%	4.18%	578	6.76%	320
12/14/07	Madison Gas & Electric	WI	10.80%	4.24%	656	6.78%	401
12/14/07	South Carolina Electric & Gas	SC	10.70%	4.24%	646	6.79%	391
12/18/07	Northwestern Energy Division	NE	10.40%	4.14%	628	6.66%	374
12/19/07	Avista Corporation	WA	10.20%	4.06%	614	6.60%	380
12/20/07	Duke Energy Carolinas	NC	11.00%	4.04%	698	6.55%	445
12/20/07	Bangor Hydro Electric	ME	10.20%	4.04%	618	6.55%	385
12/21/07	Pacific Gas and Electric	CA	11.35%	4.18%	717	6.66%	467
12/21/07	San Diego Gas & Electric	CA	11.10%	4.18%	692	6.68%	442
12/21/07	Southern California Edison	CA	11.50%	4.18%	732	6.68%	482
12/21/07	Brooklyn Union Gas	NY	9.80%	4.18%	562	6.68%	312
12/21/07	KeySpan Gas East	NY	9.80%	4.18%	562	6.68%	312
12/21/07	National Fuel Gas Distribution	NY	9.10%	4.18%	492	6.68%	242
12/28/07	Padcoop	ID	10.25%	4.11%	614	6.62%	363
12/31/07	Georgia Power	GA	11.25%	4.04%	721	6.56%	469
	4th Quarter Averages		10.33%	4.19%	612	6.57%	376
	2007 Average		10.23%	4.65%	567	6.52%	371

Source: SNL Financial, Federal Reserve

Figure 46: 2008 Rate Case Outcomes

Date	Company	State	Allowed ROE	10-Year Treas. Yield	Spread (bps)	Moody's Baa Yield	Spread (bps)
01/08/08	Northern States Power Co-WI	WI	10.75%	3.85%	689	8.49%	426
01/08/08	Northern States Power Co-WI	WI	10.75%	3.85%	689	8.49%	426
01/17/08	Wisconsin Electric Power Co.	WI	10.75%	3.66%	709	8.47%	428
01/17/08	Wisconsin Electric Power Co.	WI	10.75%	3.66%	709	8.47%	428
01/17/08	Wisconsin Gas LLC	WI	10.75%	3.66%	709	8.47%	428
01/28/08	Connecticut Light & Power Co.	CT	9.40%	3.61%	579	6.58%	282
01/30/08	Potomac Electric Power Co.	DC	10.00%	3.78%	622	6.72%	328
01/31/08	Central Vermont Public Service	VT	10.71%	3.67%	704	8.63%	468
02/05/08	North Shore Gas Co.	IL	9.99%	3.61%	638	8.62%	337
02/05/08	Peoples Gas Light & Coke Co.	IL	10.19%	3.61%	658	8.62%	357
02/13/08	Indiana Gas Co.	IN	10.20%	3.70%	650	8.81%	339
02/29/08	Fitchburg Gas & Electric Light	MA	10.25%	3.53%	672	8.75%	350
03/12/08	PacifiCorp	WY	10.25%	3.49%	676	8.88%	337
03/25/08	Consolidated Edison Co. of NY	NY	9.10%	3.51%	559	8.90%	220
03/31/08	Avista Corp.	OR	10.00%	3.45%	655	8.90%	310
	1st Quarter Averages		10.28%	3.84%	681	8.68%	360
04/22/08	MDU Resources Group Inc.	MT	10.25%	3.74%	651	8.95%	330
04/24/08	Public Service Co. of NM	NM	10.10%	3.87%	623	7.00%	310
05/01/08	Hawaiian Electric Co.	HI	10.70%	3.78%	692	8.62%	388
05/27/08	UNS Electric Inc.	AZ	10.00%	3.93%	607	7.01%	299
05/28/08	Duke Energy Ohio Inc.	OH	10.50%	4.03%	647	7.06%	344
06/10/08	Consumers Energy Co.	MI	10.70%	4.11%	659	7.05%	365
06/24/08	Almos Energy Corp.	TX	10.00%	4.10%	590	7.08%	292
06/27/08	Sierra Pacific Power Co.	NV	10.60%	3.99%	661	7.03%	357
06/27/08	Appalachian Power Co.	WV	10.50%	3.99%	651	7.03%	347
06/27/08	Questar Gas Co.	UT	10.00%	3.99%	601	7.03%	297
	2nd Quarter Averages		10.34%	3.95%	638	7.01%	333
07/10/08	Oter Tail Corp.	MN	10.43%	3.83%	650	7.00%	343
07/18/08	Orange & Rockland Utils Inc.	NY	9.40%	3.87%	543	7.21%	219
07/30/08	Empire District Electric Co.	MO	10.80%	4.07%	673	7.24%	358
07/31/08	San Diego Gas & Electric Co.	CA	10.70%	3.99%	671	7.21%	349
07/31/08	San Diego Gas & Electric Co.	CA	10.70%	3.99%	671	7.21%	349
07/31/08	Southern California Gas Co.	CA	10.82%	3.99%	683	7.21%	361
08/11/08	PacifiCorp	UT	10.25%	3.99%	626	7.23%	302
08/28/08	Southwestern Public Service Co.	NM	10.18%	3.79%	639	7.10%	308
08/27/08	SourceGas Distribution LLC	CO	10.25%	3.77%	648	7.07%	318
09/02/08	Chesapeake Utilities Corp.	DE	10.25%	3.74%	651	7.07%	318
09/10/08	Commonwealth Edison Co.	IL	10.30%	3.65%	665	7.02%	328
09/17/08	Almos Energy Corp.	GA	10.70%	3.41%	729	7.25%	345
09/24/08	Central Illinois Light Co.	IL	10.65%	3.80%	685	7.58%	307
09/24/08	Central Illinois Public	IL	10.65%	3.80%	685	7.58%	307
09/24/08	Illinois Power Co.	IL	10.65%	3.80%	685	7.58%	307
09/24/08	Central Illinois Light Co.	IL	10.68%	3.80%	688	7.58%	310
09/24/08	Central Illinois Public	IL	10.68%	3.80%	688	7.58%	310
09/24/08	Illinois Power Co.	IL	10.68%	3.80%	688	7.58%	310
09/30/08	Avista Corp.	ID	10.20%	3.85%	635	7.85%	235
09/30/08	Avista Corp.	ID	10.20%	3.85%	635	7.85%	235
	3rd Quarter Averages		10.46%	3.83%	662	7.35%	311
10/03/08	New Jersey Natural Gas Co.	NJ	10.30%	3.63%	667	7.98%	232
10/08/08	Puget Sound Energy Inc.	WA	10.15%	3.72%	643	8.21%	194
10/08/08	Puget Sound Energy Inc.	WA	10.15%	3.72%	643	8.21%	194
10/20/08	CenterPoint Energy Resources	TX	10.08%	3.91%	615	8.43%	63
10/24/08	Piedmont Natural Gas Co.	NC	10.60%	3.76%	684	8.30%	130
10/24/08	Public Service Co. of NC	NC	10.60%	3.76%	684	8.30%	130
11/17/08	Appalachian Power Co.	VA	10.20%	3.68%	652	9.26%	94
11/21/08	Southwest Gas Corp.	CA	10.50%	3.20%	730	9.08%	142
11/21/08	Southwest Gas Corp.	CA	10.50%	3.20%	730	9.08%	142
11/21/08	Southwest Gas Corp.	CA	10.50%	3.20%	730	9.08%	142
11/24/08	Narragansett Electric Co.	RI	10.50%	3.35%	715	9.21%	129
12/01/08	Tucson Electric Power Co.	AZ	10.25%	2.72%	753	8.84%	141
12/23/08	Columbia Gas of Ohio Inc	OH	10.39%	2.18%	821	8.12%	227
12/23/08	Detroit Edison Co.	MI	11.00%	2.18%	882	8.12%	288
12/24/08	Southwest Gas Corp.	AZ	10.00%	2.20%	780	8.10%	190
12/26/08	Northwest Natural Gas Co.	WA	10.10%	2.16%	784	8.06%	204
12/29/08	Portland General Electric Co.	OR	10.10%	2.13%	797	8.05%	205
12/29/08	Avista Corp.	WA	10.20%	2.13%	807	8.05%	215
12/29/08	Avista Corp.	WA	10.20%	2.13%	807	8.05%	215
12/31/08	Northern States Power Co. - MN	ND	10.75%	2.25%	850	8.07%	268
	4th Quarter Averages		10.35%	2.96%	739	8.68%	177
	2008 Average		10.35%	3.60%	675	7.40%	285

Source: SNI Financial, Federal Reserve

Figure 47: 1Q09 Rate Case Outcomes

Date	Company	State	Allowed ROE	Yield on 10-Year Treasury	Spread (bps)	Yield on Moodys Baa	Spread (bps)
01/14/09	Public Service of Oklahoma	OK	10.50%	2.24%	826	7.92%	258
01/21/09	Toledo Edison Co.	OH	10.50%	2.56%	794	8.14%	238
01/21/09	Ohio Edison Co.	OH	10.50%	2.56%	794	8.14%	238
01/21/09	Cleveland Electric Illuminating Co	OH	10.50%	2.56%	794	8.14%	238
01/27/09	Union Electric Co.	MO	10.76%	2.59%	817	8.06%	270
01/30/09	Idaho Power Co.	ID	10.50%	2.87%	763	8.29%	225
02/04/09	United Illuminating Co.	CT	8.75%	2.95%	580	8.24%	51
03/04/09	Indiana Michigan Power	IN	10.50%	3.01%	740	8.32%	218
03/12/09	Southern California Edison	CA	11.50%	2.89%	861	8.41%	309
03/17/09	Tampa Electric Co.	FL	8.11%	3.02%	509	8.62%	(51)
01/13/09	Michigan Gas Utilities Corp.	MI	10.45%	2.33%	812	8.05%	240
02/02/09	New England Gas Co.	MA	10.05%	2.78%	729	8.09%	198
03/09/09	Atmos Energy Corp.	TN	10.30%	2.89%	741	8.29%	201
03/25/09	Northern Illinois Gas Co.	IL	10.17%	2.81%	736	8.80%	157
	1st Quarter Averages		10.22%	2.72%	750	8.23%	199

Source: S&amp;P Financial, Federal Reserve

Figure 48: Electricity Rates, by Customer Class

(cents / kWh)

State	Residential	Commercial	Industrial	Total / Avg.
Idaho	6.97	5.67	4.55	5.66
West Virginia	7.02	6.02	4.17	5.54
North Dakota	7.54	6.74	5.54	6.65
Washington	7.57	6.73	4.8	6.6
Kentucky	7.71	7.12	4.84	6.16
Nebraska	7.87	6.59	5.12	6.53
Missouri	8.01	6.6	4.98	6.84
Wyoming	8.16	6.67	4.52	5.67
South Dakota	8.26	6.81	5.31	7.07
Utah	8.37	6.8	4.7	6.61
Oregon	8.54	7.63	4.93	7.27
Tennessee	8.55	8.74	6.14	7.84
Indiana	8.76	7.67	5.49	7.01
Montana	9.16	8.48	6.4	8
Kansas	9.17	7.7	NM	7.7
Oklahoma	9.45	8.21	6.08	8.13
Arkansas	9.49	7.73	5.98	7.74
Virginia	9.55	7.24	5.54	7.87
Minnesota	9.61	7.82	5.99	7.77
Iowa	9.66	7.24	4.9	6.99
North Carolina	9.68	7.64	5.59	8.06
South Carolina	9.98	8.48	NM	7.87
New Mexico	10.02	8.65	6.45	8.38
Ohio	10.13	9.19	6.19	8.39
Georgia	10.14	9.18	6.69	8.95
Colorado	10.17	8.65	6.63	8.64
Alabama	10.24	9.7	6.02	8.45
Mississippi	10.34	9.96	6.46	8.92
Arizona	10.35	8.95	6.69	9.21
Louisiana	10.55	10.29	8.12	9.59
Illinois	10.82	8.78	NM	8.95
Michigan	10.88	9.42	6.87	9.11
<b>U.S. Total</b>	<b>11.34</b>	<b>10.33</b>	<b>7.01</b>	<b>9.81</b>
Wisconsin	11.44	9.19	6.52	8.93
Pennsylvania	11.47	9.41	7.04	9.36
Florida	11.6	10.06	8.27	10.7
Nevada	11.87	10.14	8.23	10.02
District of Columbia	12.64	13.76	11.55	13.56
Texas	12.94	10.8	8.97	11.07
Maryland	13.67	12.79	10.46	12.94
Delaware	13.88	12.04	10.25	12.28
California	14.37	13.12	10.28	13
Vermont	14.6	12.5	9.01	12.31
New Hampshire	15.58	14.2	13.12	14.54
Maine	15.98	12.99	11.88	13.72
New Jersey	16.01	14.9	12.55	15.04
Alaska	16.35	13.14	14.26	14.45
Rhode Island	17.26	15.25	14.08	15.88
Massachusetts	17.38	16.1	14.41	16.24
New York	18.56	16.96	10.28	16.75
Connecticut	19.29	15.96	13.8	16.88
Hawaii	32.73	29.97	26.33	29.46

Source: EIA.

Figure 49: Ranking of State Utility Commissions

Commission	Raw Score	Rank	JD Power Score
Kentucky Public Service Commission	7.29	1	710
Wyoming Public Service Commission	7.29	1	
Iowa Utilities Board	7.32	3	708
Idaho Public Utilities Commission	7.39	4	
North Carolina Utilities Commission	7.57	5	719
Florida Public Service Commission	7.86	6	700
Minnesota Public Utilities Commission	7.93	7	698
Ohio Public Utilities Commission	7.96	8	668
Alabama Public Service Commission	8.00	9	723
Colorado Public Utilities Commission	8.00	9	694
Georgia Public Service Commission	8.00	9	723
Oklahoma Corporation Commission	8.04	12	697
Texas Public Utility Commission	8.04	12	658
Michigan Public Service Commission	8.11	14	677
North Dakota Public Service Commission	8.11	14	
California Public Utilities Commission	8.18	16	681
Indiana Utility Regulatory Commission	8.25	17	669
Kansas Corporation Commission	8.29	18	653
South Carolina Public Service Commission	8.32	19	703
Wisconsin Public Service Commission	8.39	20	693
Arkansas Public Service Commission	8.46	21	654
Virginia State Corporation Commission	8.46	21	679
Delaware Public Service Commission	8.50	23	654
Massachusetts Dept of Tele and Energy	8.61	24	650
Oregon Public Utility Commission	8.64	25	691
Washington Utils and Trans Commission	8.64	25	677
Utah Public Service Commission	8.75	27	678
Hawaii Public Utilities Commission	8.79	28	
Illinois Commerce Commission	8.86	29	617
District of Columbia Public Svc Commission	8.93	30	654
West Virginia Public Service Commission	8.93	30	
Mississippi Public Service Commission	8.96	32	689
Missouri Public Service Commission	8.96	32	653
South Dakota Public Utilities Commission	8.96	32	636
Nevada Public Utilities Commission	9.18	35	639
Louisiana Public Service Commission	9.36	36	682
Vermont Public Service Board	9.39	37	
New Jersey Board of Public Utilities	9.68	38	659
Maine Public Utilities Commission	9.71	39	677
Pennsylvania Public Utility Commission	9.89	40	691
New Hampshire Public Utilities Commission	9.93	41	646
Maryland Public Service Commission	10.00	42	623
New York Public Service Commission	10.04	43	645
Rhode Island Public Utilities Commission	10.07	44	646
Connecticut Department of Pub Utility Control	10.32	45	641
Arizona Corporation Commission	10.46	46	698
Montana Public Service Commission	10.50	47	636
New Mexico Public Regulation Commission	10.57	48	667

Source: SNI Financial, JD Power & Associates, Barclays Capital estimates.

Figure 50: State Regulatory Staff Contacts

STATE	NAME	POSITION	PHONE	E-MAIL
Alabama	Janice Hamilton	Director, Energy Division	344-242-2666	janice.hamilton@psc.alabama.gov
Arizona	John Free	Manager, Energy Division	602-542-2696	john.free@psc.az.gov
	Michael P. Keays	Interim Executive Director	602-542-3931	
	Rebecca Wilder	Public Information Officer	602-542-0844	
	Ernest G. Johnson	Director, Utilities Division	602-542-4261	
Arkansas	John Bethel	Executive Director - General Staff	501-682-1784	
California	Lynn Carow	General Staff Information Number	601-682-1784	
	Paul Cianon	Chief, ALJ Division	415-703-1721	
	Keen Gallagher	Executive Director	415-703-3806	
Colorado	Barbara Fernandez	Chief of Staff	303-894-2012	
	Eugene Camp	Director	303-894-2007	
Connecticut	Media Spokesperson	Section Chief, Energy	860-827-2970	
	Bill Pelonbe	Media Relations/Public Information	860-827-2802	bill.pelonbe@psc.state.ct.us
Delaware	Karen Niskerson	Commission Secretary	302-736-7600	karen.niskerson@state.de.us
District of Columbia	Bruce Bursel	Executive Director	302-736-7600	bbursel@psc.dc.gov
	Phyllis Faustleroy Bowman	Executive Director Office	202-828-5128	abowma@psc.dc.gov
	Amrita Davis	Executive Assistant, Exec. Dir. Office	202-828-5128	adavis@psc.dc.gov
	Joseph Nauda	Deputy Exec. Director, Regulation	850-413-8088	jnauda@psc.dc.gov
Florida	Mary Andrews Gans	Executive Director	850-413-8088	
Georgia	Charles Hill	Deputy Executive Director	850-413-6071	
	Dorothy Flannagan	Executive Director	404-668-2141	
	SS Edge	Public Information Officer	404-668-2141	ssedge@psc.state.ga.us
	Tom Bond	Director of Utilities	404-668-2141	
Hawaii	Paul Shigenaga	Administrative Director	608-568-2028	
	Jean Yamaguchi	Administrator - Utilities Division	808-388-2044	
	Stacy Ojau	Chief Counsel	808-388-2022	
Idaho	Randy Labb	Administrator, Utilities Division	208-334-0350	randy.labb@puo.idaho.gov
	Gene Fadness	Public Information Officer	208-334-0338	gene.fadness@psc.idaho.gov
Illinois	Bob Schuch	Staff	217-524-6482	
	David Farrell	Director, Public Affairs	217-524-6048	
	Tim Anderson	Office of Executive Director	217-785-7458	
Indiana	Danielle Drumet	Public Information Officer	317-232-2827	
	Joseph Sutherland	Executive Director, Public Information	317-232-4723	
	Brad Borum	Director of Electricity	317-232-2304	
Iowa	Judie Cooper	Executive Secretary	515-281-5386	
	Jeff Kaman	Energy Section	515-281-5386	
	Rob Hillstrand	Information Specialist	515-281-3591	
Kansas	Busan Cunningham	General Counsel	785-271-3272	
	Don Low	Director, Utilities Division	785-271-3241	
	Rosemary Foreman	Public Spokesperson	785-271-3375	
Kentucky	Stephanie Stumba	Executive Director	602-564-3940 ext. 204	eve.gonzales@ia.gov
Louisiana	Lawrence St. Blane	Executive Secretary	225-342-4427	arnold_chaviera@ia.gov
	Arnold Chaviera	Deputy Assistant Secretary, Utilities	225-342-4418	
	Audi Director	Audi Director	225-342-1438	
Maine	Brian McManus	Economist Director	225-342-2720	brian.mcmanus@psc.me.us
	Richard Kivela	UTILITY Analyst	207-287-8141	richard.kivela@maine.gov
	Fred Beaver	Public Information Coordinator	207-287-8141	chris.simpson@maine.gov
Maryland	Gregory V. Carnahan	Executive Director	410-767-8002	
	Coli Liston	External Relations, Director	410-767-8008	
Massachusetts	Timothy Shevlin	Executive Director	617-505-3881	
	Mary Cotral	Secretary	617-505-3800	
Michigan	Robert Kuhras	Regulatory Affairs Division, Director	617-241-8018	kuhras@michigan.gov
	Mary Jo Kunkle	Regulatory Affairs Division, Executive Secretary	617-241-3322	kunklem@michigan.gov
Minnesota	Burt Hear	Executive Secretary	651-201-2222	
Mississippi	Janet Gonzales	Supervisor, Energy	651-201-2231	
	George U. Brennan	Executive Staff	601-981-5484	
	George Haynie	Central District Chief of Staff	601-981-5430	george.haynie@psc.state.ms.us
	Thomas Adams	Northern District Chief of Staff	662-923-1471	thomas.adams@psc.state.ms.us
	Jay McNight	Santhem District Chief of Staff	662-923-2443	jay.mcnight@psc.state.ms.us
	Bob Staffenberg	Staff	673-781-7182	bob.schaftenberg@psc.ms.gov
	Kevin Kelly	Public Information Officer	673-781-8300	kevin.kelly@psc.ms.gov
Montana	Kate Whitney	Administrator - Utilities Division	406-444-3088	kwhitney@mt.gov
New Hampshire	George Howland	Executive Director	603-885-2811	
New Jersey	Doyle Stedid	Public Information Officer	973-648-6138	
	Victor Fortkiewicz	Executive Director	973-648-4882	
	Mark Beyer	Chief Economist	973-648-3414	
	Kristi Izzo	Secretary	973-648-3426	
New Mexico	Daniel Mayfield	Chief of Staff	505-827-4433	daniel.mayfield@state.nm.us
	Roy Stephenson	Utilities Division Director	505-827-4880	
	Mona Vercia	Management Analyst, Office of the Chief of Staff	505-827-4433	
Nevada	Sean Beaver	Public Information Officer	775-684-8118	sbeaver@psc.state.nv.us
	Kirby Lamplay	Director of Regulatory Operations	775-684-8137	klamplay@psc.state.nv.us
	Debra Renner	Director, Office of Administration	775-684-8137	
New York	Tom Dvorsky	Director, Electric, Gas & Water	516-473-6080	
North Carolina	Judith Lee	Acting Executive Deputy	318-474-4320	
	George Bassons	Deputy Director, Electric and Telecom	919-733-8282	
	Robert Bennett, Jr.	Dir. Asst. Division and General Counsel	919-733-0933	rbassons@ncus.net
	Rena Vance	Chief Clerk	919-733-0840	bennettr@ncus.net
North Dakota	Irene Jafcoat	Director of Public Utilities Division	701-328-2407	vance@ncus.net
Ohio	Stephen Brennan	Director, Utilities Department	614-865-3705	
	Shana Gerber	Communications Liaison	614-865-4188	
Oklahoma	Rene Jenkins	Commission Secretary	614-865-4294	
	David Dykeman	Director, Public Utility Division	405-821-3232	
Oregon	Andrew Twington	Deputy Director, Public Utility Division	405-821-8953	
	Bonnie Tatom	Electricity Division, General Info	503-378-8225	bonnie.tatom@state.or.us
	Judy Johnson	Electricity Division, General Info and Rate cas	503-378-8638	judy.johnson@state.or.us
Pennsylvania	Karen O'Maury	Director of Operations	717-787-8813	
	Tom Charles	Manager of Communications	717-787-9304	thcharles@state.pa.us
Rhode Island	Lily Maswara	Commission Clerk	401-841-4800, x107	
	Sharon Colby Camara	Chief Financial Analyst	401-841-4800, x157	
	Thomas Kogut	Chief of Information	401-841-4800, x105	
South Carolina	Charles Tatten	Chief Clerk and Administrator	803-896-5133	
South Dakota	Philip Riley	Energy Advisor	605-896-5184	
Tennessee	Greg Rislov	Commission Advisor	605-773-3201	greg.rislov@state.sd.us
	Patricia Van Garpen	Executive Director	605-773-3201	patry.vangarpen@state.sd.us
	Darlene Standley	Utilities Division, Chief	615-741-2804, x148	darlene.standley@tn.gov
	Jessica Johnson	Office of Public Information	615-741-2804, x203	jessica.johnson@tn.gov
Texas	Jess Totten	Dir. Electric Division	512-638-7235	jess.totten@psc.state.tx.us
Utah	Becky Wilson	Executive Staff Director, Electric & Gas	801-830-8770	rwilson@utah.gov
	Julie P. Orchard	Commission Administrator	801-830-8715	orchard@utah.gov
Vermont	Tamara Pariseau	Coordinator of Public Information Division	802-228-3262	tamara.pariseau@state.vt.us
	Judy Moody	Administrative Secretary	802-228-4071	judy.moody@state.vt.us
Virginia	Howard Spinner	Director, Division of Economics and Finance	804-371-8649	econfin@psc.virginia.gov
	William F. Stephens	Director, Division of Energy	804-371-8611	energy@psc.virginia.gov
	Kenneth Schrad	Director, Information Services	804-371-8141	ken.schrad@psc.virginia.gov
Washington	Anne Schwick	Director, General Utility Regulation	360-864-1280	aschwick@rtc.wa.gov
	David Danner	Executive Director	360-864-1208	danner@rtc.wa.gov
	Marilyn Meehan	Information Officer	360-864-1118	mmeehan@rtc.wa.gov
West Virginia	Mike Parvinn	Assistant Director, Electricity and Gas	360-864-1316	mparvinn@rtc.wa.gov
	Cheryl Ransson	Director, Utilities Division	304-340-0411	
	Diane Kelmeyer	Supervisor, Energy Section	304-340-0782	
	Sandra Squire	Executive Secretary	304-340-0428	
Wisconsin	Robert Norcross	Administrator, Electric Division	608-298-0699	robert.norcross@psc.state.wi.us
Wyoming	Paul Zornik	Supervisor/Assistant Administrator	307-777-8724	zornik@state.wy.us
	Denise Parrish	OCA Deputy Administrator	307-777-3743	dparrish@state.wy.us
	Mary Klar	Deckling Clerk	307-777-5749	

Source: SNL Financial

Figure 51: State Regulatory Commissioners, A-M

STATE	NAME	Party	Term Ends	Experiences	Contact Name	PHONE	E-MAIL
Alabama	Chad Lucy Beckley	D	Nov-12	President of Sullivan Furnace Inc.; private law practice	Lisa Parrish	334-242-5297	lisa.parrish@psc.alabama.gov
	Susan Parfitt	D	Nov-10	Retired educator and former state auditor.	Brod Williams	334-242-5181	brod.williams@psc.alabama.gov
	Jan Cook	D	Nov-10	Alabama State Auditor for eight years	Kelly Madore	334-242-5263	jan.cook@psc.alabama.gov
Arizona	Chad Krieth K. Mayes	R	Jan-11	State Rep., Comm. Natural Res. and Agric. Committee		602-545-4163	mayes-cto@azcc.gov
	Gary Pierce	R	Jan-11	state representative (Majority Whip)		602-545-3833	pierce-web@azcc.gov
	Bob Stamp	R	Jan-12	Attorney; State legislator; Municipal Court Judge		602-545-3935	stamp-web@azcc.gov
	Paul Newman	D	Jan-13	Attorney; Gov. Communications Director; Reporter		602-545-3622	newman-web@azcc.gov
Arkansas	Sandra Kennedy	D	Jan-13	State Regs. Institute, Chairman Energy, Utilities, & Technology Committee		501-542-3625	kennedy-web@azcc.gov
	Chad Paul Donzick	D	Jan-13	North Little Rock City Attorney, Mayor in National Guard (JAG)		501-542-5069	
	Chia Herrera	R	Jan-15	Attorney; PSC Staff Director; Governor's Liaison; Asst. General Counsel, Ark.		501-685-5909	
California	Caleb H. Hennrich	D	Jan-11	Writer; Gov's Budget Director; Gov's Economic Development Policy Advisor; various positions at Department of Higher Education		916-493-6569	
	Phis. Michael R. Pevey	D	Jan-15	CEO of TruePricing Inc.; Pres. of New Energy Inc.; Pres. of Edison Int'l. and Southern California Edison		415-703-3703	
	Dan Grossenich	D	Jan-11	Energy and Environmental Law Consultant; Attorney	Theresa Cho	415-703-2642	
Colorado	Rachelle Cheng	R	Jan-15	Attorney; FCC Commissioner; private practice attorney; mediator/arbiter	Lynn Carver	415-703-3700	
	John Bohm	R	Jan-11	Businessman; President and CEO of Moody's; Special Assistant to former U.S. Treasury Secretary Regan		415-703-2440	
	Timothy Alan Simon	R	Jan-13	Appointments Secretary in Gov. Office; General counsel and chief compliance officer for various US Corporations	Alan Reynolds	415-703-1657	
Connecticut	Chad R. Beitz	D	Jan-11	Consultant; Director of the Office of Consumer Counsel		303-884-2000	psc@cta.state.ct.us
	James T. Tupy	R	Jan-13	County Commissioner; Chair, Denver Regional Council of Government		303-884-2000	psc@cta.state.ct.us
	Mark Baker	D	Jan-12	State Representative; Utah County Commissioner; U.S. Army		303-884-2000	
Delaware	Chad Donald H. Dwyer	R	Jan-09	Attorney; Deputy Secretary of State Office of Policy and Management		302-427-2601	
	Kenn M. DeQuibbe	R	Jan-11	Private law practice; newspaper reporter		302-427-2202	
	Annita Wrayant Beatty	R	Jan-11	Governor's Special Counsel on Energy; Chief Legal Counsel to Governor		302-427-2602	
District of Columbia	John W. Beckwith	D	Jan-09	State legislator; House Chair of the Joint Commerce Committee		800-477-2822	
	Anthony J. Palumbo	D	Jan-11	Private law practice; Consulting		800-477-2822	
	Chad Arveta McRae	D	May-08	Attorney; Trademark and copyright counsel in E.D. District of Missouri.	Karna Nickerson	302-739-4247	karna.nickerson@state.dc.us
Florida	Darla Winkler	R	May-10	Attorney; Chief of legal services for State Public Defender; Florida Law Practice Manager, Richard Farms	Karna Nickerson	302-739-4247	karna.nickerson@state.dc.us
	James Bruce Lasker	R	May-12	Manager, Richard Farms	Karna Nickerson	302-739-4247	karna.nickerson@state.dc.us
	Jeann Conway	D	May-09	Attorney; U.S. Army Captain	Karna Nickerson	302-739-4247	karna.nickerson@state.dc.us
Georgia	Chad Beitz	D	Jan-11	Attorney, U.S. Army Captain		302-739-4247	
	Chad Beitz	D	Jan-11	Attorney, U.S. Army Captain		302-739-4247	
	Chad Beitz	D	Jan-11	Attorney, U.S. Army Captain		302-739-4247	
Hawaii	Chad Beitz	D	Jan-11	Attorney, U.S. Army Captain		302-739-4247	
	Chad Beitz	D	Jan-11	Attorney, U.S. Army Captain		302-739-4247	
	Chad Beitz	D	Jan-11	Attorney, U.S. Army Captain		302-739-4247	
Illinois	Chad Beitz	D	Jan-11	Attorney, U.S. Army Captain		302-739-4247	
	Chad Beitz	D	Jan-11	Attorney, U.S. Army Captain		302-739-4247	
	Chad Beitz	D	Jan-11	Attorney, U.S. Army Captain		302-739-4247	
Indiana	Chad Beitz	D	Jan-11	Attorney, U.S. Army Captain		302-739-4247	
	Chad Beitz	D	Jan-11	Attorney, U.S. Army Captain		302-739-4247	
	Chad Beitz	D	Jan-11	Attorney, U.S. Army Captain		302-739-4247	
Iowa	Chad Beitz	D	Jan-11	Attorney, U.S. Army Captain		302-739-4247	
	Chad Beitz	D	Jan-11	Attorney, U.S. Army Captain		302-739-4247	
	Chad Beitz	D	Jan-11	Attorney, U.S. Army Captain		302-739-4247	
Kansas	Chad Beitz	D	Jan-11	Attorney, U.S. Army Captain		302-739-4247	
	Chad Beitz	D	Jan-11	Attorney, U.S. Army Captain		302-739-4247	
	Chad Beitz	D	Jan-11	Attorney, U.S. Army Captain		302-739-4247	
Kentucky	Chad Beitz	D	Jan-11	Attorney, U.S. Army Captain		302-739-4247	
	Chad Beitz	D	Jan-11	Attorney, U.S. Army Captain		302-739-4247	
	Chad Beitz	D	Jan-11	Attorney, U.S. Army Captain		302-739-4247	
Louisiana	Chad Beitz	D	Jan-11	Attorney, U.S. Army Captain		302-739-4247	
	Chad Beitz	D	Jan-11	Attorney, U.S. Army Captain		302-739-4247	
	Chad Beitz	D	Jan-11	Attorney, U.S. Army Captain		302-739-4247	
Maryland	Chad Beitz	D	Jan-11	Attorney, U.S. Army Captain		302-739-4247	
	Chad Beitz	D	Jan-11	Attorney, U.S. Army Captain		302-739-4247	
	Chad Beitz	D	Jan-11	Attorney, U.S. Army Captain		302-739-4247	
Massachusetts	Chad Beitz	D	Jan-11	Attorney, U.S. Army Captain		302-739-4247	
	Chad Beitz	D	Jan-11	Attorney, U.S. Army Captain		302-739-4247	
	Chad Beitz	D	Jan-11	Attorney, U.S. Army Captain		302-739-4247	
Michigan	Chad Beitz	D	Jan-11	Attorney, U.S. Army Captain		302-739-4247	
	Chad Beitz	D	Jan-11	Attorney, U.S. Army Captain		302-739-4247	
	Chad Beitz	D	Jan-11	Attorney, U.S. Army Captain		302-739-4247	
Minnesota	Chad Beitz	D	Jan-11	Attorney, U.S. Army Captain		302-739-4247	
	Chad Beitz	D	Jan-11	Attorney, U.S. Army Captain		302-739-4247	
	Chad Beitz	D	Jan-11	Attorney, U.S. Army Captain		302-739-4247	
Mississippi	Chad Beitz	D	Jan-11	Attorney, U.S. Army Captain		302-739-4247	
	Chad Beitz	D	Jan-11	Attorney, U.S. Army Captain		302-739-4247	
	Chad Beitz	D	Jan-11	Attorney, U.S. Army Captain		302-739-4247	

Source: S&P Financial





Utilities

---

On September 20, 2008, Barclays Capital acquired Lehman Brothers' North American investment banking, capital markets, and private investment management businesses. All ratings and price targets prior to the acquisition date relate to coverage under Lehman Brothers Inc.

**Analyst Certification:**

We, Daniel Ford, CFA, Gregg Orill, Theodore W. Brooks, CFA and Ross A. Fowler, hereby certify (1) that the views expressed in this research report accurately reflect our personal views about any or all of the subject securities or issuers referred to in this research report and (2) no part of our compensation was, is or will be directly or indirectly related to the specific recommendations or views expressed in this research report.

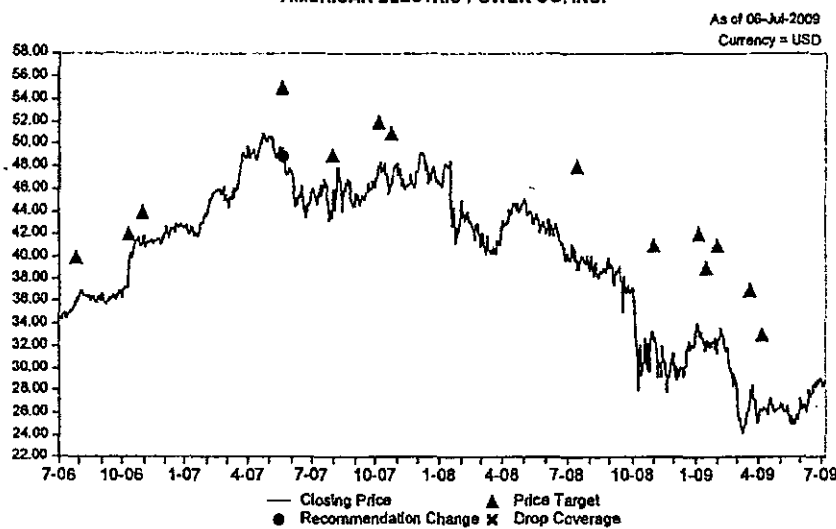
## Important Disclosures:

**American Electric Power (AEP)**  
Rating and Price Target Chart:

**US\$ 28.59 (09-Jul-2009)**

**1-Overweight / 2-Neutral**

**AMERICAN ELECTRIC POWER CO. INC.**



Currency=US\$

Date	Closing Price	Rating	Price Target
06-Apr-09	26.32		33.00
19-Mar-09	28.01		37.00
30-Jan-09	31.35		41.00
15-Jan-09	31.76		39.00
05-Jan-09	33.69		42.00
03-Nov-08	32.31		41.00
15-Jul-08	39.75		48.00
24-Oct-07	46.51		51.00

Date	Closing Price	Rating	Price Target
05-Oct-07	47.97		52.00
31-Jul-07	43.49		49.00
22-May-07	48.88		55.00
22-May-07	48.88	1-Overweight	
31-Oct-06	41.43		44.00
10-Oct-06	39.31		42.00
27-Jul-06	35.88		40.00

FOR EXPLANATIONS OF RATINGS REFER TO THE STOCK RATING KEYS LOCATED ON THE BACK PAGE.

Barclays Capital and/or Lehman Brothers Inc. and/or one of their affiliates has managed or co-managed within the past 12 months a 144A and/or public offering of securities for American Electric Power.

Barclays Capital and/or an affiliate makes a market or provides liquidity in the securities of American Electric Power.

Barclays Capital and/or Lehman Brothers Inc. and/or one of their affiliates has received compensation for investment banking services from American Electric Power in the past 12 months.

Barclays Capital and/or an affiliate expects to receive or intends to seek compensation for investment banking services from American Electric Power within the next 3 months.

Barclays Capital and/or one of their affiliates beneficially owns 1% or more of any class of common equity securities of American Electric Power.

Barclays Capital and/or an affiliate trade regularly in the shares of American Electric Power.

Barclays Capital and/or Lehman Brothers Inc. and/or one of their affiliates has received non-investment banking related compensation from American Electric Power within the last 12 months.

American Electric Power is or during the past 12 months has been an investment banking client of Barclays Capital and/or Lehman Brothers Inc. and/or one of their affiliates.

American Electric Power is or during the last 12 months has been a non-investment banking client (securities related services) of Barclays Capital and/or Lehman Brothers Inc. and/or one of their affiliates.

American Electric Power is or during the last 12 months has been a non-investment banking client (non-securities related services) of Barclays Capital and/or Lehman Brothers Inc. and/or one of their affiliates.

Risks Which May Impede the Achievement of the Price Target: Key risks include wholesale commodity prices, state and federal regulation, interest rates, and asset sale execution.

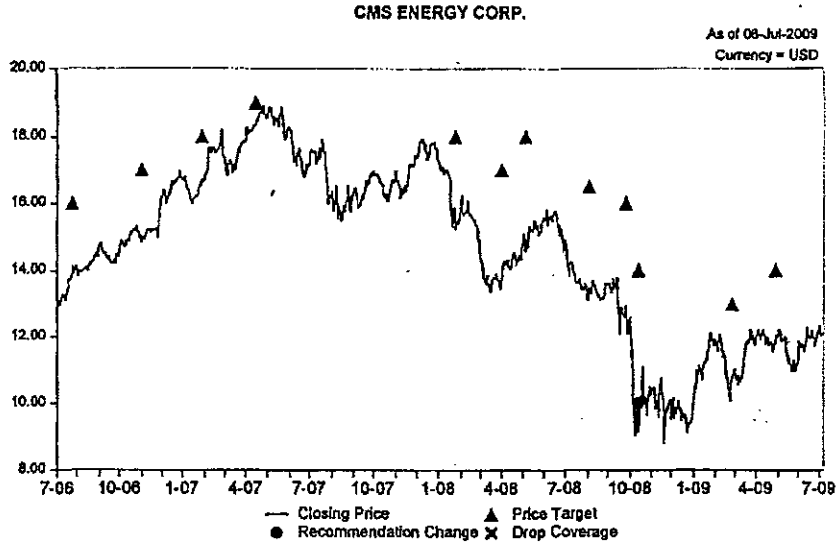
Important Disclosures Continued:

**CMS Energy (CMS)**

**US\$ 11.81 (09-Jul-2009)**

**1-Overweight / 2-Neutral**

Rating and Price Target Chart:



Currency=US\$

Date	Closing Price	Rating	Price Target
28-Apr-09	11.87		14.00
25-Feb-09	10.75		13.00
14-Oct-08	10.00		14.00
14-Oct-08	10.00	1-Overweight	
26-Sep-08	12.92		16.00
05-Aug-08	13.49		16.50
05-May-08	14.60		18.00

Date	Closing Price	Rating	Price Target
01-Apr-08	13.78		17.00
25-Jan-08	15.22		18.00
13-Apr-07	18.31		19.00
26-Jan-07	16.71		18.00
02-Nov-06	15.02		17.00
25-Jul-06	13.98		16.00

FOR EXPLANATIONS OF RATINGS REFER TO THE STOCK RATING KEYS LOCATED ON THE BACK PAGE.

Barclays Capital and/or Lehman Brothers Inc. and/or one of their affiliates has managed or co-managed within the past 12 months a 144A and/or public offering of securities for CMS Energy.

Barclays Capital and/or an affiliate makes a market or provides liquidity in the securities of CMS Energy.

Barclays Capital and/or an affiliate trade regularly in the shares of CMS Energy.

Barclays Capital and/or Lehman Brothers Inc. and/or one of their affiliates has received non-investment banking related compensation from CMS Energy within the last 12 months.

CMS Energy is or during the last 12 months has been a non-investment banking client (securities related services) of Barclays Capital and/or Lehman Brothers Inc. and/or one of their affiliates.

CMS Energy is or during the last 12 months has been a non-investment banking client (non-securities related services) of Barclays Capital and/or Lehman Brothers Inc. and/or one of their affiliates.

Barclays Capital is associated with specialist firm Barclays Capital Market Makers who makes a market in CMS Energy stock. At any given time, the associated specialist may have "long" or "short" inventory position in the stock; and the associated specialist may be on the opposite side of orders executed on the floor of the Exchange in the stock. Barclays Capital and/or an affiliate makes a market in the securities of this company.

Risks Which May Impede the Achievement of the Price Target: CMS Energy faces risk from Michigan utility regulation, commodity prices, and interest rates.

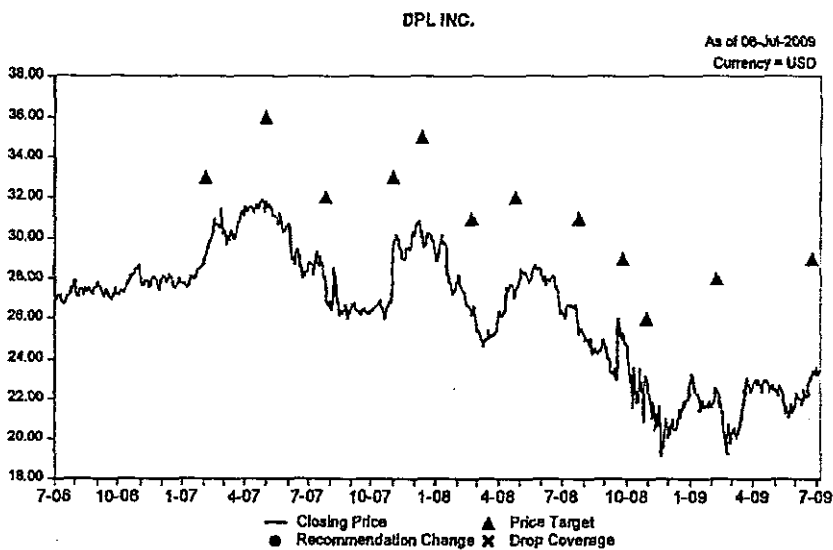
Important Disclosures Continued:

**DPL Inc. (DPL)**

**US\$ 22.80 (09-Jul-2009)**

**1-Overweight / 2-Neutral**

Rating and Price Target Chart:



Source: FactSet

Currency=US\$

Date	Closing Price	Rating	Price Target
24-Jun-09	23.15		29.00
06-Feb-09	22.56		28.00
30-Oct-08	23.14		26.00
26-Sep-08	25.34		29.00
24-Jul-08	25.70		31.00
24-Apr-08	27.35		32.00
22-Feb-08	26.26		31.00

Date	Closing Price	Rating	Price Target
13-Dec-07	30.41		35.00
31-Oct-07	29.04		33.00
26-Jul-07	27.61		32.00
01-May-07	31.50		36.00
02-Feb-07	29.07		33.00

FOR EXPLANATIONS OF RATINGS REFER TO THE STOCK RATING KEYS LOCATED ON THE BACK PAGE.

Barclays Capital and/or an affiliate makes a market or provides liquidity in the securities of DPL Inc..

Barclays Capital and/or an affiliate hold a short position of at least 1% of the outstanding share capital of DPL Inc..

Barclays Capital and/or an affiliate trade regularly in the shares of DPL Inc..

Risks Which May Impede the Achievement of the Price Target: Risks to the outlook include wholesale commodity prices, generation development market conditions, the outcome of regulatory proceedings, rating agency actions, interest rates, and access to the capital markets.

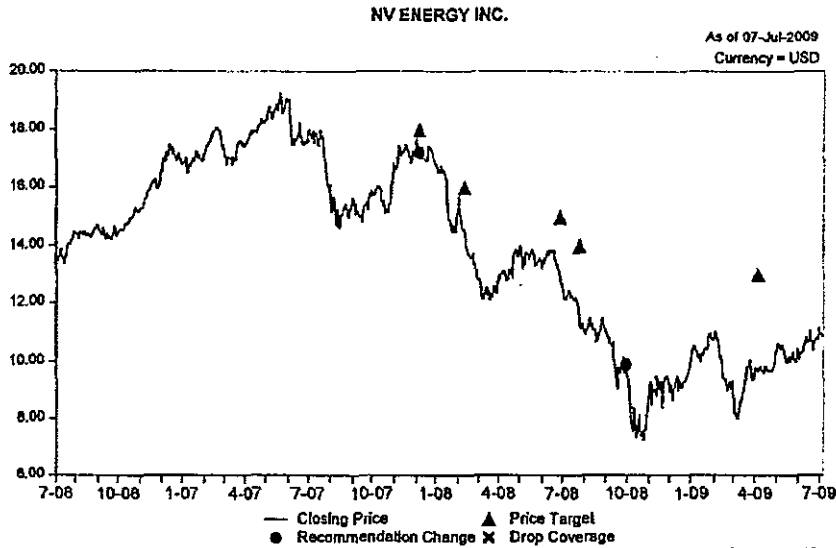
Important Disclosures Continued:

**NV Energy, Inc. (NVE)**

**US\$ 10.66 (09-Jul-2009)**

**1-Overweight / 2-Neutral**

Rating and Price Target Chart:



Currency=US\$

Date	Closing Price	Rating	Price Target
06-Apr-09	9.74		13.00
01-Oct-08	9.89	1-Overweight	
25-Jul-08	11.27		14.00
30-Jun-08	12.71		15.00

Date	Closing Price	Rating	Price Target
12-Feb-08	14.57		16.00
10-Dec-07	17.20		18.00
10-Dec-07	17.20	2-Equal weight	

FOR EXPLANATIONS OF RATINGS REFER TO THE STOCK RATING KEYS LOCATED ON THE BACK PAGE.

Barclays Capital and/or Lehman Brothers Inc. and/or one of their affiliates has managed or co-managed within the past 12 months a 144A and/or public offering of securities for NV Energy, Inc.

Barclays Capital and/or an affiliate makes a market or provides liquidity in the securities of NV Energy, Inc.

Barclays Capital and/or Lehman Brothers Inc. and/or one of their affiliates has received compensation for investment banking services from NV Energy, Inc. in the past 12 months.

Barclays Capital and/or an affiliate trade regularly in the shares of NV Energy, Inc.

Barclays Capital and/or Lehman Brothers Inc. and/or one of their affiliates has received non-investment banking related compensation from NV Energy, Inc. within the last 12 months.

NV Energy, Inc. is or during the past 12 months has been an investment banking client of Barclays Capital and/or Lehman Brothers Inc. and/or one of their affiliates.

NV Energy, Inc. is or during the last 12 months has been a non-investment banking client (securities related services) of Barclays Capital and/or Lehman Brothers Inc. and/or one of their affiliates.

NV Energy, Inc. is or during the last 12 months has been a non-investment banking client (non-securities related services) of Barclays Capital and/or Lehman Brothers Inc. and/or one of their affiliates.

**Risks Which May Impede the Achievement of the Price Target:** Risks to the outlook include wholesale commodity prices, generation development market conditions, the outcome of regulatory proceedings, rating agency actions, interest rates, and access to the capital markets.

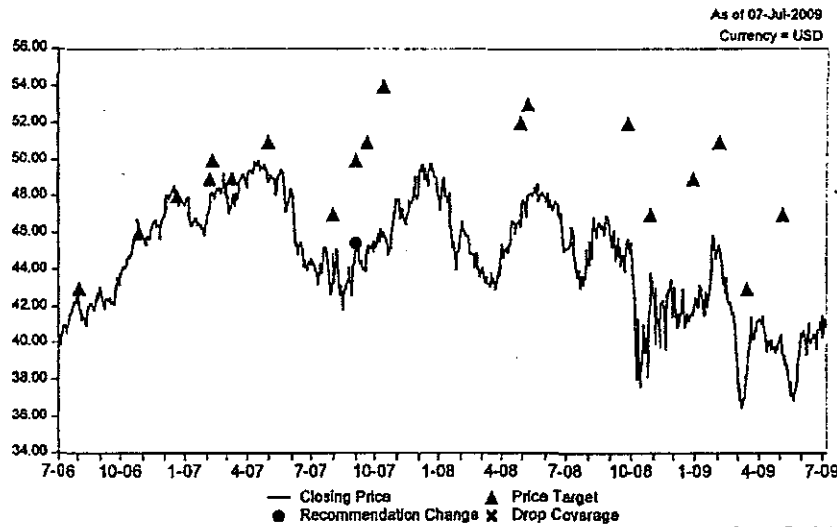
Important Disclosures Continued:

**Wisconsin Energy (WEC)**  
Rating and Price Target Chart:

**US\$ 40.87 (09-Jul-2009)**

**1-Overweight / 2-Neutral**

**WISCONSIN ENERGY CORP.**



Currency=US\$

Date	Closing Price	Rating	Price Target
06-May-09	39.40		47.00
17-Mar-09	38.31		43.00
04-Feb-09	45.38		51.00
30-Dec-08	41.50		49.00
30-Oct-08	43.80		47.00
29-Sep-08	45.32		52.00
08-May-08	48.08		53.00
29-Apr-08	46.31		52.00
12-Oct-07	46.11		54.00
19-Sep-07	45.33		51.00

Date	Closing Price	Rating	Price Target
04-Sep-07	45.50		50.00
04-Sep-07	45.50	1-Overweight	
01-Aug-07	43.64		47.00
01-May-07	48.78		51.00
08-Mar-07	47.67		49.00
08-Feb-07	48.26		50.00
05-Feb-07	47.48		49.00
20-Dec-06	47.94		48.00
26-Oct-06	46.38		46.00
02-Aug-06	42.39		43.00

FOR EXPLANATIONS OF RATINGS REFER TO THE STOCK RATING KEYS LOCATED ON THE BACK PAGE.

Barclays Capital and/or an affiliate makes a market or provides liquidity in the securities of Wisconsin Energy.

Barclays Capital and/or Lehman Brothers Inc. and/or one of their affiliates has received compensation for investment banking services from Wisconsin Energy in the past 12 months.

Barclays Capital and/or an affiliate trade regularly in the shares of Wisconsin Energy.

Wisconsin Energy is or during the past 12 months has been an investment banking client of Barclays Capital and/or Lehman Brothers Inc. and/or one of their affiliates.

**Risks Which May Impede the Achievement of the Price Target:** Risks that could affect the company include: time and budget execution of the "Power the Future" generation plan, Wisconsin regulation, and interest rates.

## Important Disclosures Continued:

## Sector Coverage Universe

Below is the list of companies that constitute the sector coverage universe:

Alliant Energy (LNT)	American Electric Power (AEP)
CMS Energy (CMS)	Consolidated Edison (ED)
DPL Inc. (DPL)	DTE Energy (DTE)
Duke Energy (DUK)	Great Plains Energy Inc. (GXP)
Hawaiian Electric Inds (HE)	ITC Holdings (ITC)
NiSource, Inc. (NI)	Northeast Utilities (NU)
NSTAR (NST)	NV Energy, Inc. (NVE)
Pepco Holdings (POH)	PG&E Corp. (PCG)
Pinnacle West Capital (PNW)	PNM Resources (PNM)
Portland General Electric Co. (POR)	Progress Energy (PEG)
Sempra Energy (SRE)	Southern Co. (SO)
TECO Energy (TE)	Wester Energy (WR)
Wisconsin Energy (WEC)	Xcel Energy (XEL)

## Barclays Capital offices involved in the production of Equity Research:

London

Barclays Capital, the investment banking division of Barclays Bank Plc (Barclays Capital, London)

New York

Barclays Capital Inc. (BCI, New York)

Tokyo

Barclays Capital Japan Limited (BCJL, Tokyo)

São Paulo

Banco Barclays S.A. (BBSA, São Paulo)

Mentioned Company	Ticker	Price	Price Date	Stock / Sector Rating
American Electric Power	AEP	US\$ 28.59	09 Jul 2009	1-Overweight / 2-Neutral
CMS Energy	CMS	US\$ 11.81	09 Jul 2009	1-Overweight / 2-Neutral
DPL Inc.	DPL	US\$ 22.80	09 Jul 2009	1-Overweight / 2-Neutral
NV Energy, Inc.	NVE	US\$ 10.66	09 Jul 2009	1-Overweight / 2-Neutral
Wisconsin Energy	WEC	US\$ 40.87	09 Jul 2009	1-Overweight / 2-Neutral

FOR CURRENT IMPORTANT DISCLOSURES REGARDING COMPANIES THAT ARE  
THE SUBJECT OF THIS RESEARCH REPORT, PLEASE SEND A WRITTEN REQUEST TO:  
BARCLAYS CAPITAL RESEARCH COMPLIANCE  
745 SEVENTH AVENUE, 17TH FLOOR, NEW YORK, NY 10019

OR

REFER TO THE FIRM'S DISCLOSURE WEBSITE AT [www.lehman.com/disclosures](http://www.lehman.com/disclosures)

#### Important Disclosures Continued:

The analysts responsible for preparing this report have received compensation based upon various factors including the firm's total revenues, a portion of which is generated by investment banking activities.

#### Guide to the Barclays Capital Fundamental Equity Research Rating System:

Our coverage analysts use a relative rating system in which they rate stocks as 1-Overweight, 2-Equal Weight or 3-Underweight (see definitions below) relative to other companies covered by the analyst or a team of analysts that are deemed to be in the same industry sector ("the sector coverage universe"). To see a list of companies that comprise a particular sector coverage universe, please go to [www.lehman.com/disclosures](http://www.lehman.com/disclosures).

In addition to the stock rating, we provide sector views which rate the outlook for the sector coverage universe as 1-Positive, 2-Neutral or 3-Negative (see definitions below). A rating system using terms such as buy, hold and sell is not the equivalent of our rating system. Investors should carefully read the entire research report including the definitions of all ratings and not infer its contents from ratings alone.

#### Stock Ratings:

**1-Overweight** - The stock is expected to outperform the unweighted expected total return of the sector coverage universe over a 12-month investment horizon.

**2-Equal Weight** - The stock is expected to perform in line with the unweighted expected total return of the sector coverage universe over a 12-month investment horizon.

**3-Underweight** - The stock is expected to underperform the unweighted expected total return of the sector coverage universe over a 12-month investment horizon.

**RS-Rating Suspended** - The rating and target price have been suspended temporarily due to market events that made coverage impracticable or to comply with applicable regulations and/or firm policies in certain circumstances including when Barclays Capital is acting in an advisory capacity in a merger or strategic transaction involving the company.

#### Sector View:

**1-Positive** - sector coverage universe fundamentals/valuations are improving.

**2-Neutral** - sector coverage universe fundamentals/valuations are steady, neither improving nor deteriorating.

**3-Negative** - sector coverage universe fundamentals/valuations are deteriorating.

This publication has been prepared by Barclays Capital, the investment banking division of Barclays Bank PLC, and/or one or more of its affiliates as provided below. This publication is provided to you for information purposes only. Prices shown in this publication are indicative and Barclays Capital is not offering to buy or sell or soliciting offers to buy or sell any financial instrument. Other than disclosures relating to Barclays Capital, the information contained in this publication has been obtained from sources that Barclays Capital believes to be reliable, but Barclays Capital does not represent or warrant that it is accurate or complete. The views in this publication are those of Barclays Capital and are subject to change, and Barclays Capital has no obligation to update its opinions or the information in this publication. Barclays Capital and its affiliates and their respective officers, directors, partners and employees, including persons involved in the preparation or issuance of this document, may from time to time act as manager, co-manager or underwriter of a public offering or otherwise, in the capacity of principal or agent, deal in, hold or act as market-makers or advisors, brokers or commercial and/or investment bankers in relation to the securities or related derivatives which are the subject of this publication.

The analyst recommendations in this report reflect solely and exclusively those of the author(s), and such opinions were prepared independently of any other interests, including those of Barclays Capital and/or its affiliates.

Neither Barclays Capital, nor any affiliate, nor any of their respective officers, directors, partners, or employees accepts any liability whatsoever for any direct or consequential loss arising from any use of this publication or its contents. The securities discussed in this publication may not be suitable for all investors. Barclays Capital recommends that investors independently evaluate each issuer, security or instrument discussed in this publication and consult any independent advisors they believe necessary. The value of and income from any investment may fluctuate from day to day as a result of changes in relevant economic markets (including changes in market liquidity). The information in this publication is not intended to predict actual results, which may differ substantially from those reflected. Past performance is not necessarily indicative of future results.

This communication is being made available in the UK and Europe to persons who are investment professionals as that term is defined in Article 19 of the Financial Services and Markets Act 2000 (Financial Promotion Order) 2005. It is directed at, and therefore should only be relied upon by, persons who have professional experience in matters relating to investments. The investments to which it relates are available only to such persons and will be entered into only with such persons. Barclays Capital is authorized and regulated by the Financial Services Authority ("FSA") and member of the London Stock Exchange.

Barclays Capital Inc., US registered broker/dealer and member of FINRA ([www.finra.org](http://www.finra.org)), is distributing this material in the United States and, in connection therewith accepts responsibility for its contents. Any U.S. person wishing to effect a transaction in any security discussed herein should do so only by contacting a representative of Barclays Capital Inc. in the U.S. at 745 Seventh Avenue, New York, New York 10019.

Subject to the conditions of this publication as set out above, ABSA CAPITAL, the Investment Banking Division of ABSA Bank Limited, an authorised financial services provider (Registration No.: 1986/004794/06), is distributing this material in South Africa. Any South African person or entity wishing to effect a transaction in any security discussed herein should do so only by contacting a representative of ABSA Capital in South Africa, 15 ALICE LANE, SANDTON, JOHANNESBURG, GAUTENG, 2196. ABSA CAPITAL IS AN AFFILIATE OF BARCLAYS CAPITAL.

Non-U.S. persons should contact and execute transactions through a Barclays Bank PLC branch or affiliate in their home jurisdiction unless local regulations permit otherwise.

In Japan, this report is being distributed by Barclays Capital Japan Limited to institutional investors only. Barclays Capital Japan Limited is a joint-stock company incorporated in Japan with registered office of 2-2-2, Otemachi, Chiyoda-ku, Tokyo 100-0004, Japan. It is a subsidiary of Barclays Bank PLC and a registered financial instruments firm regulated by the Financial Services Agency of Japan.

Registered Number: Kanto Zaimukyokuchō (Kinsho) No. 143.

Barclays Bank PLC Frankfurt Branch is distributing this material in Germany under the supervision of Bundesanstalt für Finanzdienstleistungsaufsicht (BaFin).

IRS Circular 230 Prepared Materials Disclaimer: Barclays Capital and its affiliates do not provide tax advice and nothing contained herein should be construed to be tax advice. Please be advised that any discussion of U.S. tax matters contained herein (including any attachments) (i) is not intended or written to be used, and cannot be used, by you for the purpose of avoiding U.S. tax-related penalties; and (ii) was written to support the promotion or marketing of the transactions or other matters addressed herein. Accordingly, you should seek advice based on your particular circumstances from an independent tax advisor.

© Copyright Barclays Bank PLC (2009). All rights reserved. No part of this publication may be reproduced in any manner without the prior written permission of Barclays Capital or any of its affiliates. Barclays Bank PLC is registered in England No. 1026167. Registered office 1 Churchill Place, London, E14 5HP. Additional information regarding this publication will be furnished upon request.



# United States: Utilities: Power - Electric Utilities



## Powering On: Tilting to commodity oriented utilities and IPPs

### Upgrading IPPs from Neutral to Attractive; RRI Energy to CL Buy

With expected improvements in spot commodity prices, along with a continued uptick in power demand, we upgrade Independent Power Producers (IPPs) and reiterate our Attractive view on Diversified Utilities. Commodity levered utilities and IPPs lagged other energy/commodity sectors YTD, creating mean reversion potential going forward. While dividend yield spreads still remain attractive, we downgrade Regulated Utilities to Neutral, given limited average upside to larger cap targets. Within the regulated space, we tilt more towards smaller cap stocks.

We upgrade RRI Energy (RRI) to Conviction Buy, as the most un-hedged name in our universe. We also reiterate our Conviction Buy rating on large-cap nuclear generator Entergy (ETR) and remove small-cap Great Plains Energy (GXP) from the Conviction List, although we maintain our Buy rating. We downgrade Portland General (POR) to Neutral from Buy due to recent share price performance and concerns about 2010 guidance. Since being added to Americas Buy List on August 17, 2009 POR is up 5.7% and since being to the CL Buy List on the same date, GXP is up 4.9% vs. the XLU up 2.8% and the S&P500 up 8.5%.

### Industry context and estimate changes

As weather-adjusted electricity demand declined 4%-5% YTD and industrial demand decreased over 10%, we now expect YoY comparisons for power demand to improve as GDP and industrial production accelerate. We revise our demand forecast slightly for 2010, from 0.6% to 0.4%, due to our new bottoms-up versus top-down demand forecast, but still expect a pick-up next year in industrial and residential demand.

Overall, we revise estimates to reflect this new demand forecast. We increase multiples to levels slightly below historical mean levels, given our gas/power price forecast levels remain in most areas near forward strip estimates.

### Catalysts and risks

Key sector risks include (1) lower than expected commodity prices, (2) decreased power demand, (3) higher expected financing and capital spending needs, and (4) rising interest rates and inflation. Catalysts include an industry conference in November, auctions in various regional power markets and signs of improvement in weekly demand.

**Michael Lapides**  
(212) 357-6307 | michael.lapides@gs.com Goldman, Sachs & Co.  
**Jaideep Malik**  
(212) 934-6967 | jaideep.malik@gs.com Goldman Sachs India SPL  
**Zac Hurst**  
(212) 357-2399 | zac.hurst@gs.com Goldman, Sachs & Co.  
**Neil Mehta**  
(212) 357-4042 | neil.mehta@gs.com Goldman, Sachs & Co.

The Goldman Sachs Group, Inc. 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. For Reg AC certification, see the end of the text. Other important disclosures follow the Reg AC certification, or go to [www.gs.com/research/hedge.html](http://www.gs.com/research/hedge.html). Analysts employed by non-US affiliates are not registered/qualified as research analysts with FINRA in the U.S.

### RELATED RESEARCH

*Stepping up the voltage: Upgrading Regulated & Diversified Utilities. June 25, 2009.*

*Dimming the lights: Downgrading Utilities on relative outperformance and weak demand. December 11, 2008.*

### RATINGS, TARGETS, AND RETURNS

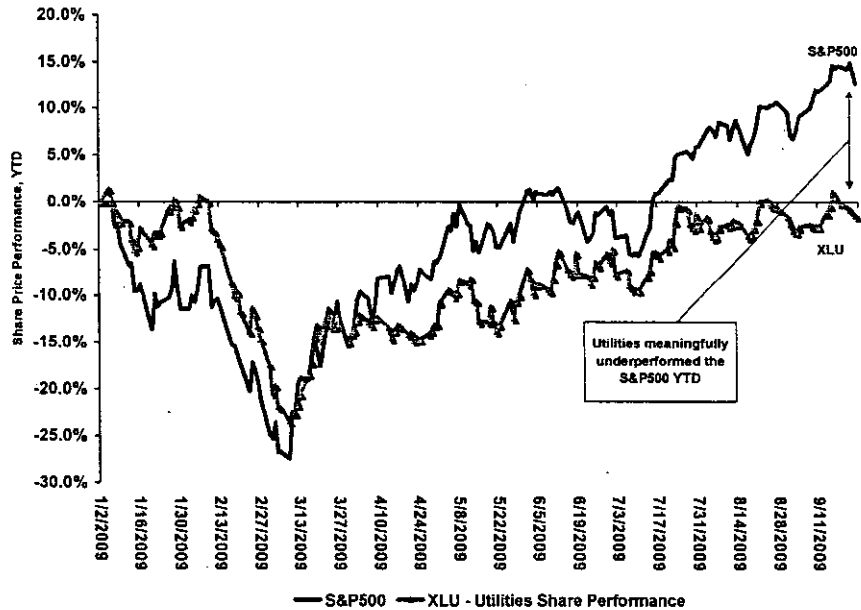
	Identification	Close			Tot Ret
	Ticker	Rating	09/28/09	Target	to Target
<b>Diversified Utilities</b>					
Ameren	AEE	Sell	\$25.74	\$25	3%
Allegheny Energy	AYE	Neutral	\$26.96	\$31	17%
Edison International	EIX	Neutral	\$34.01	\$39	19%
Entergy	ETR	CL Buy	\$79.84	\$101	31%
Exelon	EXC	Buy	\$50.12	\$62	28%
Sempra Energy	SRE	Neutral	\$50.17	\$59	20%
Mean					20%
Median					19%
<b>Large Cap Regulated Utilities</b>					
American Elec Power	AEP	Buy	\$31.13	\$37	24%
Duke Energy	DUK	Neutral	\$15.93	\$15	0%
Consolidated Edison	ED	CL Sell	\$41.40	\$38	-3%
PG&E	PCG	Neutral	\$40.91	\$43	9%
Progress Energy	PGN	Neutral	\$39.80	\$40	7%
Mean					8%
Median					7%
<b>Mid &amp; Small-Cap Regulated Utilities</b>					
Cicco	CNL	Neutral	\$25.10	\$25	0%
El Paso Electric	EE	Neutral	\$17.84	\$21	18%
Great Plains Energy	GXP	Buy	\$18.17	\$22	26%
NSTAR	NST	Sell	\$32.09	\$29	-5%
Northeast Utilities	NU	Neutral	\$23.99	\$29	22%
Portland General Electric	POR	Neutral	\$20.07	\$22	20%
SCANA Corporation	SCG	Neutral	\$35.30	\$40	13%
NV Energy	NVE	Neutral	\$11.59	\$14	24%
Wisconsin Energy	WEC	Neutral	\$45.11	\$49	9%
Westar Energy	WR	Neutral	\$19.80	\$23	23%
Mean					15%
Median					18%
<b>Special Situation Utilities and IPPs</b>					
NRG Energy	NRG	Buy	\$27.20	\$37	36%
Ormat Technologies	ORA	Neutral	\$41.03	\$41	1%
RRI Energy	RRI	CL Buy	\$8.98	\$9	29%
Mean					22%
Median					29%

Source: Goldman Sachs Research estimates

## Portfolio Manager Summary – Own utilities, given improving fundamentals, relative under-performance and valuation

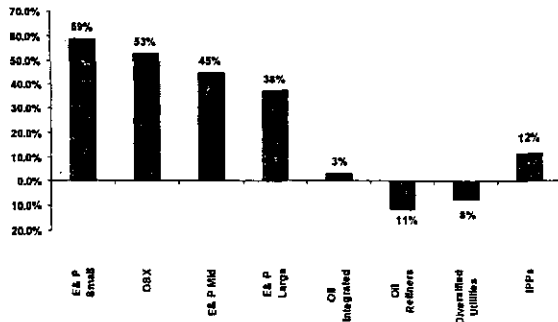
The broader utilities sector, especially the commodity levered names within the space, screen attractively after sizable underperformance YTD versus the S&P500 and since January 2008 versus other commodity oriented sectors. We reiterate our Attractive coverage view on Diversified Utilities, while upgrading the independent Power Producer (IPP) sub-sector to Attractive, due to (1) improving YoY demand trend comparisons and improving spot commodity prices, (2) significant relative underperformance versus the S&P500 and commodity-exposed sectors, as shown in Exhibit 1-3 below, (3) valuation on longer term metrics, and (4) a continued low interest rate and inflationary environment, as forecast by the GS Economics team. We lower our coverage view on Regulated Utilities to Neutral, since few of the larger cap bell-weather names screen attractively here. Equity issuances, a significant sector-wide overhang entering 2009, no longer weigh on the group, as only a few names require infusions in 2010. We still expect YoY demand growth in 2010, with improving fundamentals, up 0.4% from 2009 levels, as well as forecasting a sizable increase in spot commodity prices next year from current levels.

**Exhibit 1: Utilities sector screens attractively after significant YTD underperformance share price performance, ytd**



Source: Goldman Sachs Research.

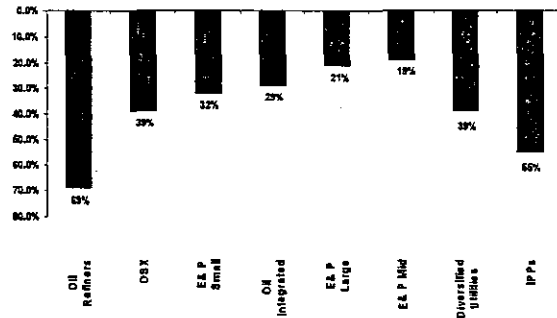
**Exhibit 2: IPPs and Diversified Utilities underperformed other commodity sensitive equities YTD...**  
share price performance, ytd



Source: Goldman Sachs Research.

Note: Performance is from equities under GS coverage

**Exhibit 3: IPPs and Diversified Utilities underperformed other commodity sensitive equities January 2008**  
share price performance, since 1/1/2008



Source: Goldman Sachs Research.

Note: Performance is from equities under GS coverage

After a painful 2009 YTD trajectory for electricity demand, we revise our forecast to reflect a more bottoms up (versus top-down) approach – projecting consumption across the industrial, commercial and residential classes. Historically, a top-down approach tied to GDP accurately predicted electricity demand, where trends showed that every 1% change in real GDP growth drove a 0.6%-0.7% change in electricity demand. Entering 2009, we remained bearish on electricity demand fundamentals and therefore consensus estimates – our bearish forecasts still understated demand, as GDP weakened and industrial production collapsed. A GDP-based top down forecast holds long-term value in our view, but a more bottoms up approach appears more viable going forward to capture changes by customer class.

- A series of correlation analyses show that Industrial Production (IP), total fixed investment and unemployment emerge as key drivers of power demand. We analyzed a host of factors across each class, as shown in Exhibit 6, determining that forecasts for Industrial Production maintain a greater statistical correlation than GDP forecasts in terms of assessing MWh sales to industrial customers. Similarly, metrics tied to unemployment rates and total fixed investment – albeit as lagging indicators – drive sales to commercial customers. Weather drives residential demand growth, historically at 1.5%-2.0% annually, with minimal signs to date of efficiency gains on a national scale, although some level should emerge in the coming years given sizable stimulus-related investments.
- Sentiment around electricity demand will improve, given better YoY comparisons and accelerating GDP growth. Early signs should emerge that electricity demand will stabilize, with QoQ and then YoY comparisons improving. Demand for 2H2009 should decline only 2%-3% from 2H2008 levels – an improvement from trough-like levels in 1H2009, with a pick-up in industrial and residential MWh sales driving growth in 2010. Normalized demand growth for 2011-2012 could reach 1.5%-1.7% even with slight efficiency gains included, with sales to commercial customers presenting the biggest near-term risks

For merchant generators, improving demand fundamentals and spot commodity prices over the next 6-12 months should lead to multiple expansion. We raise multiples on pure-play IPPs in our universe – NRG Energy and RRI Energy – to reflect improved sentiment and the significant FCF generation likely in a \$5.50-\$7/MMBtu natural

gas price environment. Applying a 7.0X multiple on these predominantly base-load generators remains somewhat below historical mean/median levels of approximately 7.25X, reflecting improving, but still below trend electricity demand growth in 2010.

**Regulated Utilities still trade below historical multiples, but few large caps screen well, driving our change in coverage view.** Regulated Utilities currently trade near 9.9X our 2012 expected EPS, implying an 8% discount to the long-term average of 10.9X (since 2005). On near-term multiples, Regulated Utilities trade at roughly 12.4X on our FY2 estimates and 11.9X on consensus— below historical levels closer to 12.5X. We anticipate a mean reversion toward the historic average over the next 12-months – given better demand fundamentals and higher earnings and rate base growth – driving our increase of P/E multiples from 9X to 10-10.5X on 2012 EPS. However, many of the bellwether names screen less attractively than small/mid cap regulated stocks, with less upside to target prices.

**We add RRI Energy (RRI) to our Americas Conviction Buy list, while reiterating our Conviction Buy on Entergy (ETR) and removing Great Plains Energy (GXP) from the Conviction Buy list, although maintaining our Buy rating on this regulated name.** We upgrade RRI Energy (RRI), an Independent Power Producer (IPP) from Neutral to Conviction Buy, as we raise estimates on lower expected coal costs at one of its key coal facility that burns waste coal, not traditional Appalachian based coal. RRI provides the best FCF profile within our universe and maintains the commodity leverage, with the shares still below historical levels, as RRI trades at 70%-75% below January 2008 levels and 50% below January 2007 pricing. We remove GXP from the Conviction Buy list, but maintain our Buy rating, given a lack of near-term catalysts and concern on 3Q weather impacting estimates.

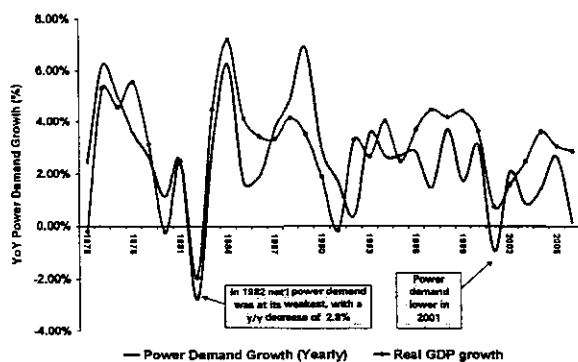
**Given recent performance and concerns on 2010 guidance, we downgrade Portland General (POR), while reiterating a Buy rating on large-cap American Electric Power (AEP).** After upgrading POR on August 17, the shares have outperformed other Regulated Utilities by 250-300bps, although lagging the S&P 500. We downgrade POR given our concerns that 2010 guidance will disappoint, given our forecast of \$1.63 versus consensus levels of \$1.75. We reiterate our Buy rating on AEP, the one large cap Regulated Utility we prefer, primarily on valuation, as AEP trades at a 16%-18% discount to peers on 2010-2011 estimates.

## Lighten up with a deep dive into electricity demand fundamentals

### Top-down, GDP-based demand forecasts – a good long-term forecasting tool, but less effective in the near-term

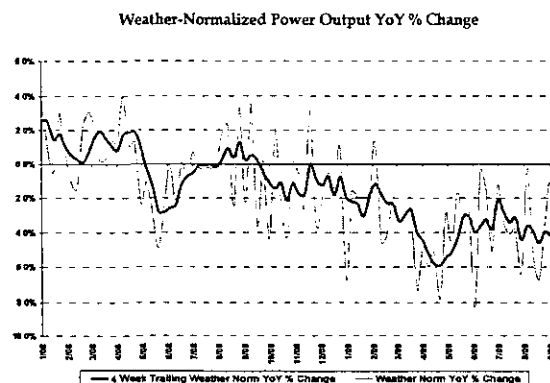
The historical top-down relationship between real GDP growth and electricity demand “broke down” earlier this year. As outlined in our December 11, 2008 note, “Dimming the Lights,” annual weather-adjusted electricity demand growth historically correlates well to YoY real GDP growth, as detailed in Exhibit 4. Over time, every 1% change in GDP growth drove a 0.6%-0.7% change in electricity demand. We entered 2009 assuming a 1% YoY decline in weather-normalized demand, driven by an expected 1.6% decline in real GDP. However, real GDP decelerated faster than expected, down 3-4% in 1H2009, but the historical correlation with power demand “broke down” in 1H2009, with actual power demand down 4%, worse than the 2-2.5% that a top-down GDP-driven model would imply.

**Exhibit 4: Historically, every 1% change in YoY GDP, drives a 0.6-0.7% change in electricity demand... yoy power demand and gdp growth (1975-2007)**



Source: Goldman Sachs Research, GS Global ECS Research.

**Exhibit 5: ...but, the historical correlation with power demand broke down in 2009, with actual power demand worse than a top-down GDP model would imply yoy weekly power demand, weather-normalized**



Source: Goldman Sachs Research, EEI.

We primarily attribute the 2009 dislocation of GDP-to-electric sales from this historical trend to the steep fall off in industrial electricity demand. The industrial customer class represents a disproportionately high share of total electric consumption relative to industrial-related activity as a percentage of the total economy. Therefore, the recent sharp fall off of in usage by industrial customers appears to be understated in a GDP-based model.

A top-down model approach remains relevant, particularly as a sanity check in more normal GDP environments. As industrial demand normalizes in 2010 and 2011, we expect electricity demand to converge with its historical relationship with GDP. Weather-adjusted demand growth under a US real GDP forecast of 2.0% in 2010 would be 1.25% under our top-down model – a modestly higher outcome near-term than our new model approach (discussed below) derives – and 1.5-2% in 2011 and beyond, given a long-term real GDP growth rate of 2.5-3%.

### Bottom-up demand forecasts – implementing a more granular electricity demand forecast

Our new demand deck, based on a bottoms-up approach by customer class, also shows electricity demand should improve in 2010. We adopt a new bottoms-up approach to forecasting electricity demand by customer class for industrial, commercial and residential customers – through 2012 and expect 0.4% YoY weather normal growth in 2010. As highlighted in Exhibit 6 below, after assessing a variety of factors and variables for industrial MWh demand, industrial production assumptions – and not GDP – emerge as the most highly correlated. For commercial demand, total fixed investment and unemployment drive our bottoms-up approach and show continued risk in demand for this segment, while a more basic trend analysis, incorporating efficiency gains, remains the best method for estimating residential demand.

**Exhibit 6: Industrial production is the key driver for industrial electricity demand, while total fixed investment and unemployment rates are among the best predictors for commercial demand**  
 correlation of various macroeconomic statistics to customer class-specific electricity demand

		Coefficient of Determination (R <sup>2</sup> )			Metric Definition	Comments
		Low	Medium	High		
Industrial MWh	Industrial Production			67%	IP measures domestic output by manufacturing, mining, and utility firms	Relationship with industrial production is statistically significant on a coincidental
	GDP			54%	Aggregate market value of all final goods/services = consumer + investment + net exports + government	Industrial sales maintains highest correlation with GDP among customer classes
Commercial MWh	Unemployment Rate (3m lag)			48%	The percentage of the labor force that is not employed but is actively seeking work	Correlation on a one quarter lag is strongest
	GDP			27%	Aggregate market value of all final goods/services = consumer + investment + net exports + government	
	Total Fixed Investment (9m lag)			58%	Fixed capital spent for residential and business purposes, including equipment and structures	Correlation is tightest on a 9 month lag likely due to delay between initial fixed investment and time that equipment/structure actually goes into operation
	Occupied Retail & Commercial Space			52%	Occupied retail/office space = stock (total square footage outstanding) x (1 - vacancy rate)	Vacancy rates are likely to move higher from current levels
	Personal Consumer Expenditures			28%	Gauge of changes in price of consumer services and goods	
	Retail Sales			23%	This report tracks sales by retail establishments, including food services	Based on the GS Composite Comparable-Store Sales Index
Residential MWh	GDP			3%	Aggregate market value of all final goods/services = consumer + investment + net exports + government	Lowest relationship with GDP among customer classes
	Unemployment Rate			7%	The percentage of the labor force that is not employed but is actively seeking work	
	Household Growth			23%	Growth of occupied housing units	Household growth is a reasonable indicator, but does not drive a statistically significant correlation

Source: Goldman Sachs Research, EIA, GS Global ECS Research.

Electricity demand growth will rebound via three key stages, with the first stage occurring in 2H2009. As outlined in Exhibit 7, the trajectory of the recovery in electricity demand will likely experience three stages: (1) exiting a cyclical bottom, with YoY demand declines improving from 1H2009 trough-like levels even with continued industrial weakness, (2) a more steady recovery of electricity sales in 2010, with modest growth of 0.4% even though commercial MWh sales will disappoint, and (3) more "normalized" for 2011-2012, although pressured somewhat by efficiency gains. We adjust our weather normalized estimates to factor in the YoY impact of weather, as detailed in Exhibit 8.

**Exhibit 7: Our bottoms-up, weather normalized forecasts shows slight growth in 2010, driven by a pickup in industrial demand**  
weather-normalized YoY demand forecasts

	3Q2009	4Q2009	1Q2010	2Q2010	3Q2010	4Q2010	FY2010	FY2011	FY2012
National	-2.9%	-2.2%	-0.6%	0.0%	0.8%	1.3%	0.4%	1.5%	1.7%
Industrial	-9.2%	-6.1%	-1.5%	1.4%	1.6%	1.4%	0.7%	0.2%	0.1%
Residential	0.1%	0.9%	1.4%	0.9%	1.4%	1.4%	1.3%	1.9%	1.9%
Commercial	-2.2%	-2.6%	-2.4%	-1.9%	-0.3%	1.1%	-0.9%	1.9%	2.6%

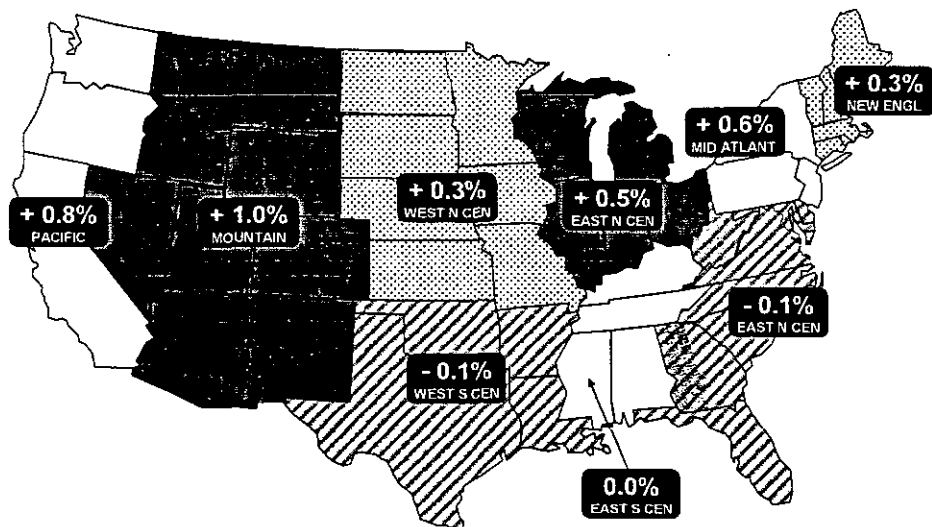
**Phase 1:**  
**Exiting Demand Bottom**  
Industrial sales improving significantly, driving us out of the cyclical bottom in demand

**Phase 2:**  
**Steady Recovery**  
Residential and Industrial sales are positive YoY, while commercial to remain weak

**Phase 3:**  
**Return to Normal**  
Return to long-run growth rate of 1.5-1.7%, with commercial demand growth outpacing industrial and residential sales

Source: Goldman Sachs Research, EIA, GS Global ECS Research.

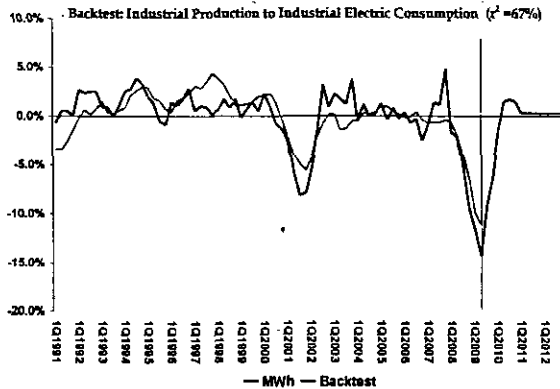
**Exhibit 8: We normalize for weather impacts in our electricity demand forecasts, driving various regional forecasts and a national forecast of +0.4% YoY in 2010**  
2010 weather-normalized demand by EIA region



Source: Goldman Sachs Research, EIA.

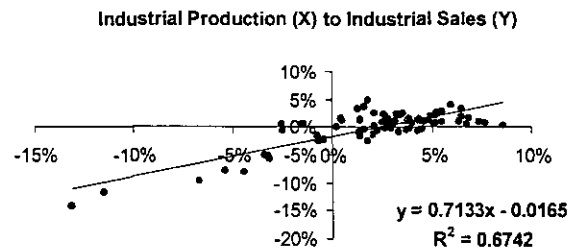
**Industrial MWh sales should increase in 2010 with a rebound in Industrial Production, but longer-term trends in industrial MWh sales remain challenging.** As shown in Exhibit 9-10 below, industrial MWh sales appear highly correlated with Industrial Production (IP) with an R-squared of approximately 67%. IP declined approximately 13% in 2Q2009, leading to a significant downturn in industrial electricity demand. The Goldman Sachs Global ECS team projects a robust IP recovery in 2Q-4Q2010, likely leading to an increase of 1-2% in electricity consumption by industrial customers. However, in a more normalized production environment post-2010, we believe industrial electricity demand will once again lag other customer classes, as we believe it takes at least a YoY 3.7% increase in IP (above historical trend) to drive just a 1% increase in industrial MWh sales.

**Exhibit 9: Economists forecast a strong increase in industrial production will drive the economic recovery – a positive for 2010 industrial MWh demand**  
backtest of industrial production-based forecasting methodology to industrial electric consumption



Source: Goldman Sachs Research.

**Exhibit 10: However, it takes above trend US production growth to drive a just 1% increase in industrial MWh sales – a long-term risk to industrial demand**  
correlation between IP and industrial sales

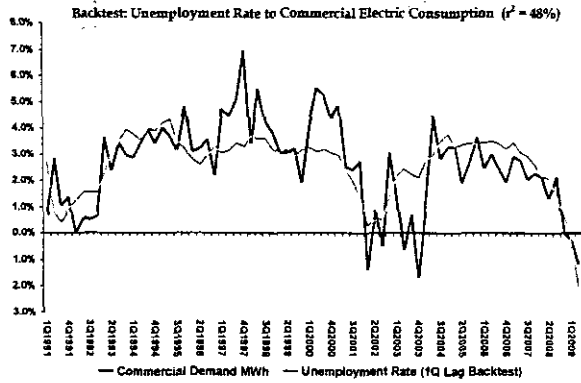


Source: Goldman Sachs Research.

**Commercial demand growth appears closely correlated with total fixed business investment and unemployment rate variables.** Unemployment rate levels and total fixed investment, at a 3 month and 9 month lag, respectively, emerge as the best predictors of electricity demand for commercial customers. Long-term commercial demand growth will likely outpace growth rates for industrial and residential customers, but risk exists for 2010 expectations, as continued high unemployment and below-trend investment levels will weigh on demand from this segment. We expect a YoY increase in weather-normalized sales to commercial customers of 0.9% versus a historical growth rate closer to 2.5%.

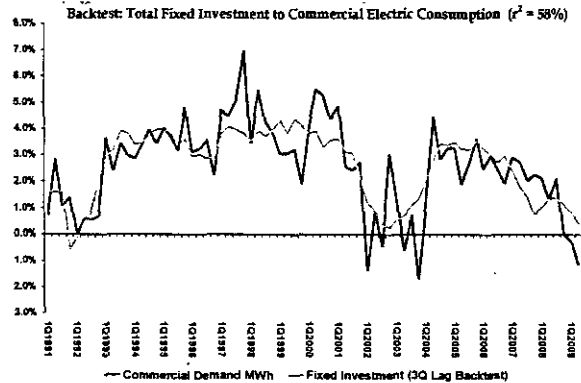


**Exhibit 11: We use a 50-50 blend of unemployment ...**  
backtest of unemployment rate-based forecasting  
methodology to commercial electric consumption



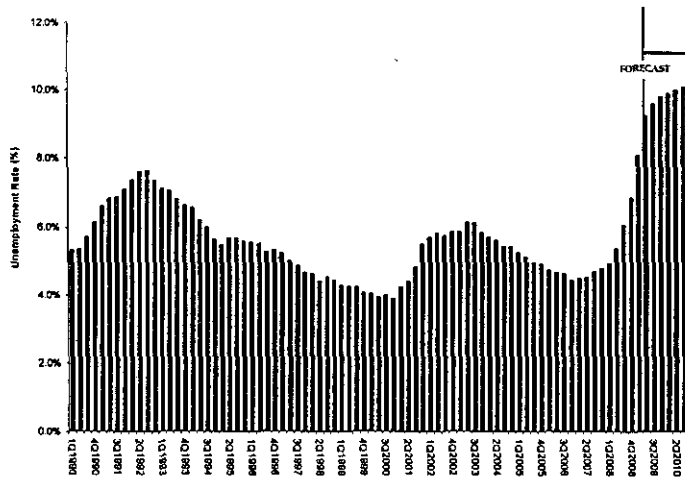
Source: Goldman Sachs Research.

**Exhibit 12: ...and total fixed investment to drive our**  
commercial customer class MWh demand forecasts  
backtest of total fixed investment-based forecasting  
methodology to commercial electric consumption



Source: Goldman Sachs Research.

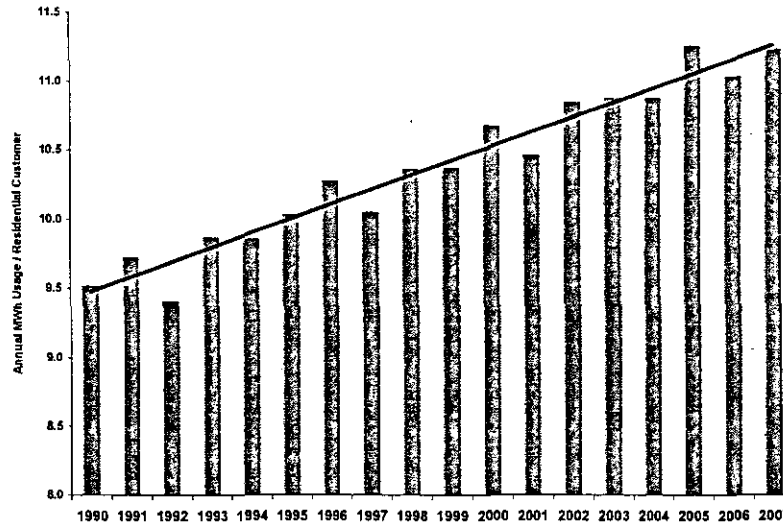
**Exhibit 13: GS Global ECS forecast unemployment rates will be near or above 10% through 2010, weighing on commercial electricity demand**  
unemployment rate forecasts



Source: GS Global ECS Research, Goldman Sachs Research.

**Historically, residential electricity demand increased annually by 2.0%-2.5% and upside to our expectation exists if efficiency gains do not emerge.** We utilize a trend based analysis to predict weather-normalized power demand for the residential customer class and assume 1.9% growth for 2011/2012. This incorporates a rough estimate for efficiency gains – gains we incorporate to reflect the significant spending brought by the American Recovery and Reinvestment Act. We note that usage per residential customers, especially over the last 5-10 years, continued to increase, not decrease, so upside to our forecasts for residential demand growth for 2011-2012 exists if even modest 10-20 bps efficiency gains that we assume do not emerge.

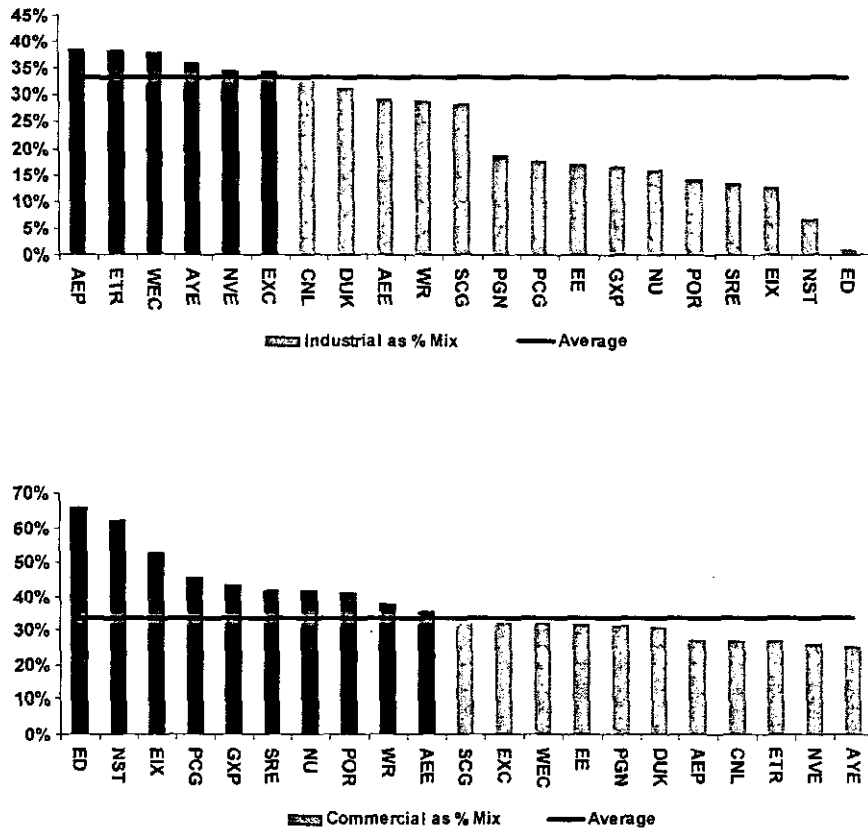
**Exhibit 14: From 1990-2007, we observed MWh usage per residential customer increase, so upside to our demand growth forecasts exist if efficiency gains do not materialize annual MWh usage per residential customer**



Source: Goldman Sachs Research.

**Utilities in the Midwest, the South and the Plains states should benefit in 2010 as industrial MWh sales respond to higher industrial production levels.** In our universe, on 2007 estimates, Conviction Buy-rated ETR and Buy-rated AEP remain among the most levered to electricity sales to industrial customers, given a greater proportion of total sales to this segment, as highlighted in Exhibit 15 below. We note companies with sizable exposure to commercial customer demand – including Sell-rated NSTAR (NST) – may experience demand weakness above peer levels given higher-than-average exposure to MWh sales to commercial customers. California and NY based utilities, even though they maintain sizable exposure to the commercial segment, maintain rate structures that include decoupling from demand, thus significantly less exposed to demand trends overall.

**Exhibit 15: American Electric Power and Entergy are among the most levered to industrial demand, while NSTAR is among the most commercially-exposed**  
 2007 customer class breakdown by regulated utility segment



Source: SNL

**We revise estimates to reflect our new demand forecast and minor changes to power price assumptions**

For both Regulated Utilities and Diversified Utilities, we update our estimates to reflect new electricity demand assumptions for their regulated businesses. As detailed above and summarized in Exhibit 16 below, we revise our electricity demand growth assumptions, impacting EPS estimates for regulated segments prior to rate case adjustments in future periods. On average, our 2010 estimates for Regulated Utilities remain approximately 4% below consensus – with below consensus views on Duke Energy (DUK-Neutral), Portland General (POR-Neutral) and NSTAR (NST-Sell) and an above consensus view for Great Plains Energy (GXP-Buy).

**Exhibit 16: Old versus new demand forecasts**  
weather-normalized YoY demand forecasts

	Weather-Normal YoY Nat'l. Demand Forecasts (%)		
	Old	New	Difference
3Q2009	0.0%	-2.9%	-2.9%
4Q2009	-0.3%	-2.2%	-1.9%
1Q2010	0.6%	-0.6%	-1.2%
2Q2010	0.6%	0.0%	-0.6%
3Q2010	0.6%	0.8%	0.2%
4Q2010	0.6%	1.3%	0.7%
FY2010	0.6%	0.4%	-0.2%
FY2011		1.5%	
FY2012		1.7%	

Source: Goldman Sachs Research.

**For Diversified Utilities and the IPPs, we also make modest changes to power price forecasts.** In addition to revising demand estimates for regulated segments, we also implement minor power price adjustments in the Midwest and industrial portions of the Mid-Atlantic/Northeast. Natural gas prices continue to drive power price assumptions – as forecast by the Goldman Sachs E&P research team, we continue to expect a significant uplift in 2010/2011 power prices, driven by higher natural gas levels. Among commodity levered names, our 2010 forecasts differ significantly for Sell-rated Ameren (AEE) and for Buy-rated Exelon (EXC), although we recognize that a large portion of the upside inherent in EXC remains tied to eventual implementation of carbon regulations, as detailed in our June 25 note, "Carbonomics: Measuring impact of US carbon regulation on select industries."

**Exhibit 17: Old versus new commodities forecasts**

	WTI Oil		Henry Hub Gas		CAPP Coal	PRB Coal
	new	old	new	old	unchanged	unchanged
3Q 2009E	\$67.00	\$65.00	\$3.40	\$4.00	\$50.00	\$10.50
4Q 2009E	\$77.00	\$70.00	\$4.00	\$4.50	\$55.00	\$11.00
FY 2009E	\$61.72	\$59.47	\$3.98	\$4.25	\$52.23	\$10.22
1Q 2010E	\$85.00	\$80.00	\$5.00	\$5.00	\$55.00	\$12.00
2Q 2010E	\$85.00	\$80.00	\$5.00	\$5.00	\$55.00	\$12.00
3Q 2010E	\$90.00	\$80.00	\$5.50	\$5.50	\$55.00	\$12.50
4Q 2010E	\$100.00	\$80.00	\$6.50	\$6.50	\$55.00	\$13.00
FY 2010E	\$90.00	\$80.00	\$5.50	\$5.50	\$55.00	\$12.38
2011E	\$110.00	\$100.00	\$7.00	\$7.00	\$60.00	\$14.00
2012E	\$105.00	\$105.00	\$6.50	\$6.50	\$65.00	\$14.00
2013N	\$85.00	\$85.00	\$6.50	\$6.50	\$70.00	\$13.00

Source: Goldman Sachs Research.

**We forecast significant FCF yields for the IPPs, providing opportunities for debt reduction, buybacks, or growth.** Based on our commodity price forecasts and capital spending estimates, we expect from 2010-2012 RRI will deliver FCF/sh of \$0.86-\$1.18 and NRG will generate FCF/sh of \$3.84-2.40, representing average FCF yields of 17% and 12%, respectively. This 2010-2012 free cash flow equals roughly 51% and 38% of the current market capitalizations for RRI and NRG, or 48% and 30% of their respective debt

outstanding. We expect capital deployment across the balance sheet over the next few years, barring significant new investments in growth, M&A, or environmental projects.

**Exhibit 18: We forecast 13% and 17% 2010-2012 FCF yields for NRG and RRI independent power producers FCF forecast**

Independent Power Producers FCF Forecasts				
	2010	2011	2012	Average
<b>RRI</b>				
FCF/share	\$0.86	\$1.64	\$1.04	\$1.18
FCF Yield	12.3%	23.5%	15.0%	16.9%
<b>NRG</b>				
FCF/share	\$3.84	\$3.19	\$3.30	\$3.44
FCF Yield	14.1%	11.7%	12.1%	12.7%

Source: Goldman Sachs Research estimates

**Exhibit 19: GS EPS estimates versus consensus forecasts**

GS EPS estimates versus consensus									
Ticker	2009			2010			2011		
	GS EPS	Cons EPS	% Ch	GS EPS	Cons EPS	% Ch	GS EPS	Cons EPS	% Ch
<b>Large Cap Regulated</b>									
AEP	\$2.70	\$2.87	-6%	\$2.99	\$3.03	-1%	\$3.33	\$3.22	3%
DUK	\$1.11	\$1.21	-8%	\$1.17	\$1.30	-10%	\$1.30	\$1.36	-4%
ED	\$2.99	\$3.11	-4%	\$3.21	\$3.29	-2%	\$3.31	\$3.41	-3%
PCG	\$3.08	\$3.16	-3%	\$3.45	\$3.40	2%	\$3.81	\$3.70	3%
PGN	\$2.66	\$3.03	-6%	\$2.99	\$3.20	-6%	\$3.32	\$3.34	-1%
Mean			-6%			-4%			-3%
<b>Small/Mid Cap Regulated</b>									
CNL	\$1.64	\$1.65	0%	\$2.14	\$2.07	3%	\$2.27	\$2.27	0%
EE	\$1.34	\$1.32	2%	\$1.28	\$1.55	-17%	\$1.47	\$1.66	-11%
GXP	\$1.17	\$1.19	-2%	\$1.54	\$1.45	6%	\$2.01	\$1.82	11%
NST	\$2.33	\$2.36	-1%	\$2.29	\$2.48	-8%	\$2.50	\$2.62	-5%
NU	\$1.68	\$1.84	-8%	\$1.85	\$1.98	-7%	\$2.00	\$2.18	-8%
POR	\$1.45	\$1.39	4%	\$1.63	\$1.75	-7%	\$2.21	\$2.09	6%
SCG	\$2.85	\$2.83	1%	\$2.98	\$3.05	-2%	\$3.35	\$3.28	2%
NVE	\$0.89	\$0.92	-2%	\$0.94	\$1.13	-17%	\$1.12	\$1.19	-6%
WEC	\$3.05	\$3.12	-2%	\$4.01	\$3.76	7%	\$4.13	\$4.10	1%
WR	\$1.45	\$1.71	-15%	\$1.84	\$1.83	-1%	\$1.57	\$1.84	-15%
Mean			-6%			-6%			-3%
<b>Diversified Utilities</b>									
AEE	\$2.21	\$2.72	-19%	\$2.12	\$2.59	-18%	\$2.50	\$2.50	0%
AYE	\$2.15	\$2.22	-3%	\$2.47	\$2.49	-1%	\$3.57	\$3.25	10%
ETR	\$6.50	\$6.52	0%	\$6.87	\$6.91	-3%	\$7.95	\$7.25	10%
EIX	\$2.92	\$3.04	-4%	\$3.58	\$3.49	2%	\$3.84	\$3.81	6%
EXC	\$4.02	\$4.11	-2%	\$3.58	\$4.03	-11%	\$4.11	\$4.60	-11%
SRE	\$4.46	\$4.53	-1%	\$4.93	\$5.14	-4%	\$5.55	\$5.55	-3%
Median			-3%			-4%			3%
Mean			-6%			-6%			2%
<b>Independent Power Producers</b>									
NRG	\$1.86	\$2.94	-37%	\$2.34	\$2.72	-14%	\$2.25	\$2.33	-4%
ORA	\$1.23	\$1.32	-7%	\$1.27	\$1.54	-17%	\$1.25	\$1.88	-26%
RRI	(\$0.77)	(\$0.55)	-40%	\$0.19	\$0.06	224%	\$0.64	\$0.32	101%
Median			-37%			-14%			-4%
Mean			-28%			64%			24%
Note: NRG EPS assumes contract amortizations associated with the acquisition of Reliant									
GS EBITDA estimates versus consensus									
<b>Independent Power Producers</b>									
Ticker	2009			2010			2011		
	GS EBITDA	Cons EBITDA	% Ch	GS EBITDA	Cons EBITDA	% Ch	GS EBITDA	Cons EBITDA	% Ch
NRG	\$2,448	\$2,280	7%	\$2,620	\$2,358	11%	\$2,513	\$2,467	2%
ORA	\$148	\$151	-2%	\$180	\$185	-3%	\$248	\$223	11%
RRI	\$141	\$331	-57%	\$567	\$582	-3%	\$684	\$727	-9%
Median			-2%			-3%			2%
Mean			-17%			2%			2%

Source: Goldman Sachs Research estimates, Factset.

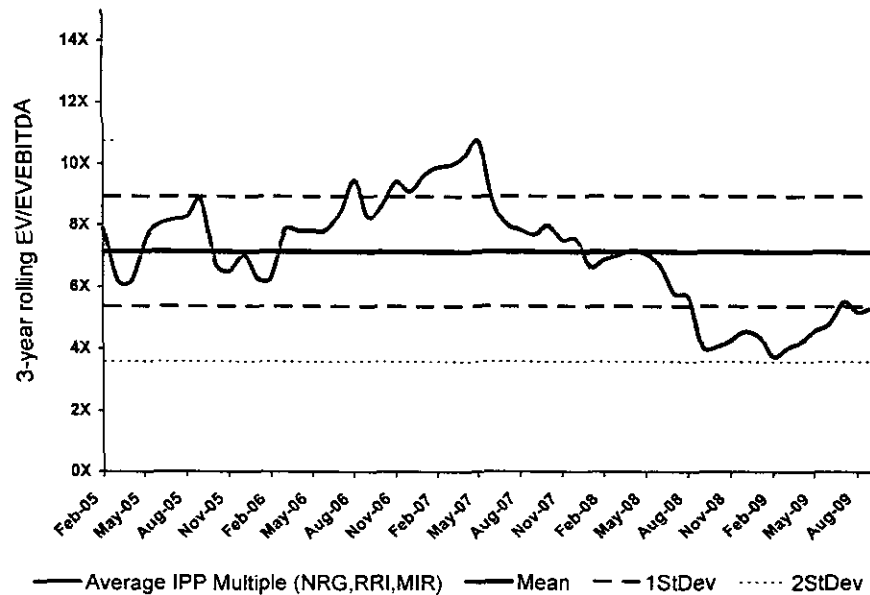
Note: EBITDA estimates are Adjusted EBITDA, not GAAP EBITDA.

## We upgrade Independent Power Producers to Attractive and remain Attractive on commodity oriented Diversified Utilities

As power demand and commodity prices improve, IPP multiples should continue to expand – and we upgrade RRI Energy from Neutral to Conviction Buy. Improving natural gas prices, power prices and electricity demand all should support and enhance valuations for merchant generators and the merchant generation segments owned by Diversified Utilities. We raise multiples on pure-play IPPs in our universe – NRG Energy and RRI Energy – to reflect improved sentiment and the significant FCF generation likely in a \$5.50-\$7/MMBtu natural gas price environment. Applying a 7.0x multiple on these predominantly base-load generators remains somewhat below historical mean/median levels of 7.25x-7.5x, reflecting improving, but still below trend electricity demand growth in 2010.

**Exhibit 20: Base-load IPPs still trade one standard deviation below their LT mean despite recent multiple expansion**

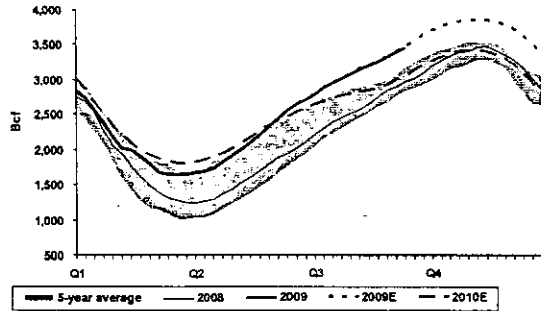
3YR forward EV/EBITDA multiples of base-load IPPs (NRG, RRI, MIR) on consensus estimates



Source: GS Research Estimates, Factset

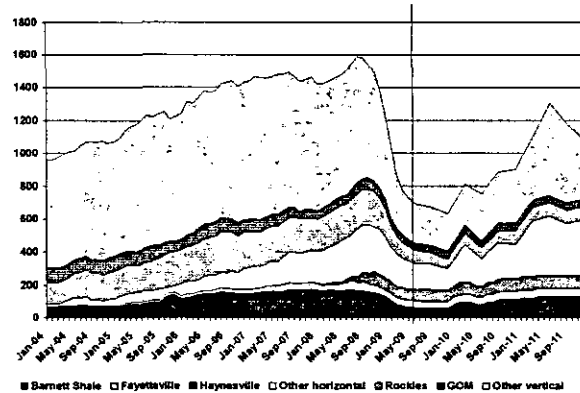
Natural gas prices should improve and will likely emerge over the coming 12 months as a catalyst, not a headwind, for IPPs and merchant generation. The Goldman Sachs E&P team sees the potential for near term bullish weekly data builds due to (1) industrial demand improvements, (2) lower production due to natural declines and lower rig count, (3) lower production due to maintenance, shut ins, and/or drilled but not completed wells, and (4) coal-to-gas substitution. We continue to focus on 1H2010 gas prices as a key driver for FY2011. Assuming gas prices stay below \$5.00/MMBtu Henry Hub gas in 1H2010, our E&P team forecasts a normalization of gas storage in 2Q/3Q 2010, leading to tightness and a spike in prices during Winter 2010-2011.

**Exhibit 21: Near term storage data could turn bullish natural gas storage**



Source: Goldman Sachs Research estimates, US DOE

**Exhibit 22: ....and further rig count declines should lead to \$6+/MMBtu gas beyond 2010 US natural gas rig count**



Source: Baker Hughes

Within our universe, RRI maintains the most sensitivity to changes in commodity prices, although others maintain sizable commodity leverage. As highlighted in Exhibit 23 below, RRI Energy maintains the greatest exposure to natural gas and power prices, given minimal hedges for its generation output. Above-market coal contracts weigh on 2009 significantly and have a modest impact on 2010, but roll-off by 2011. Diversified Utilities also maintain sizable exposure to natural gas and power prices, with hedges rolling off at different times for each – Allegheny Energy (AYE) remains significantly unhedged for 2011, while few maintain hedges beyond 2011.

**Exhibit 23: RRI and NRG remain the most sensitive to a \$1.00 change in Gas, AYE is most sensitive Diversified Utility**

EPS Sensitivity to + or - \$1.00/mmbtu of natural gas in 2010,2011

EPS sensitivity + or - \$1.00/mmbtu of Natural Gas			
	2010	2011	2012
<b>Independent Power Producers</b>			
NRG	12%	17%	208%
RRI	167%	60%	36%
<b>Average</b>	<b>90%</b>	<b>39%</b>	<b>122%</b>
<b>Diversified Utilities</b>			
AEE	4%	7%	10%
AYE	9%	23%	37%
EIX	10%	13%	15%
ETR	3%	7%	11%
EXC	2%	9%	26%
SRE	1%	1%	2%
<b>Average</b>	<b>5%</b>	<b>10%</b>	<b>17%</b>

\*Our "base-case" implies our E&P Team's forecast of \$5.50/mmbtu in 2010 and \$7.00/mmbtu in 2011

Source: Goldman Sachs Research estimates.

**We raise estimates for RRI and increase target prices for IPPs, upgrading RRI to CL Buy, with around 30-35% upside in both RRI and NRG.** We continue to apply a sum of the parts valuation methodology for IPPs and the IPP segments within Diversified Utilities, now utilizing a 7.0x base-line EV/EBITDA multiple on average 2011/2012 EBITDA, then making adjustments for expected average FCF yields, returns on invested capital, anticipated carbon impact, and broader attractiveness of regional markets. For RRI, we increase estimates to reflect lower than previously forecast coal costs for its Seward unit, a waste coal facility competitively advantaged due to coal that costs roughly half the cost of traditional Appalachian coal. We lower our 12-month, DCF based, price target on Neutral-rated ORA from \$43 to \$41, on (1) lower forecasted backlog, (2) lower gross margins forecasts, and (3) lower power prices in Hawaii, implying 5% upside.

**Exhibit 24: We upgrade RRI from Neutral to Buy and remain buyers of NRG**  
SoTP Valuation of IPPS (\$mn unless per share estimates)

Company	RRI	NRG
Average 2011-2012 EBITDA	\$560	\$2,434
Baseline EV/EBITDA Multiple	7.0x	7.0x
Adjustments to Baseline Multiple		
Attractiveness of Regional Markets	0.0x	-0.3x
Carbon Exposure	-1.5x	-1.0x
Returns on Capital	0.0x	0.0x
Free Cash Flow Yield	1.75x	1.25x
<b>Target EV/EBITDA Multiple</b>	<b>7.2x</b>	<b>7.0x</b>
<b>Enterprise Value</b>	<b>\$4,056</b>	<b>\$17,019</b>
Net debt	\$1,053	\$6,465
<b>Equity Value - Generation &amp; Other Non-Utility</b>	<b>\$3,002</b>	<b>\$10,266</b>
Current Diluted Share Count	351	275
<b>Equity Value per Share - Generation &amp; Other Non-Utility</b>	<b>\$8.56</b>	<b>\$37.33</b>
<b>Target Price per Share</b>	<b>\$9</b>	<b>\$37</b>
Current Share Price	\$6.98	\$27.20
Dividend yield	0.0%	0.0%
<b>Total Return to Target</b>	<b>29%</b>	<b>36%</b>
Carbon NPV, \$/sh	\$ (2)	\$ (9)
Generation Returns on Capital 2011-2012	3.4%	5.7%
Generation Free Cash Flow Yield 2011-2012	19.2%	11.9%

Source: Goldman Sachs Research estimates.

**Multiple expansions will also benefit Diversified Utilities, as we forecast improving valuations for their non-regulated subsidiaries and regulated segments.** We value the "parts" of Diversified Utilities using two methodologies: (1) P/E metrics on regulated earnings power, and (2) an EV/EBITDA multiple on the non-regulated merchant generation or IPP segments, with adjustments for (a) returns of capital, (b) free cash flow, (c) exposure to potential carbon regulations, and (d) attractiveness of regional markets.



**Exhibit 25: Multiple expansion benefits Diversified Utilities at both segments**  
 SoTP valuation methodology

Company	AEE	AYE	EIX	EXC
Utility 2012 EPS	\$2.44	\$1.44	\$3.48	\$1.08
Applied Target PE Multiple	10.0x	10.0x	10.5x	10.5x
Utility Equity Value per Share	\$24	\$14	\$36	\$11
Average EBITDA on Generation (2011-2012)	\$410	\$690	\$849	\$3,604
Other 2011-2012 EBITDA	\$0	\$0	(\$30)	(\$102)
<b>Total Generation &amp; Other Non-Utility EBITDA</b>	<b>\$410</b>	<b>\$690</b>	<b>\$819</b>	<b>\$3,502</b>
Baseline EV/EBITDA Multiple	7.0x	7.0x	7.0x	7.0x
Adjustments to Baseline Multiple				
Attractiveness of Regional Markets	-0.8x	-1.0x	-0.3x	-0.5x
Carbon Exposure	-1.3x	-0.5x	0.2x	3.7x
Returns on Capital	-0.3x	0.5x	0.0x	0.3x
Free Cash Flow Yield	-0.3x	0.8x	0.0x	0.0x
<b>Target EV/EBITDA Multiple</b>	<b>4.5x</b>	<b>6.8x</b>	<b>7.0x</b>	<b>10.5x</b>
Enterprise Value - Generation & Other Non-Utility	\$1,835	\$4,675	\$5,699	\$36,661
Generation & Non-Utility Net Debt	\$1,682	\$1,795	\$4,942	\$3,140
<b>Equity Value - Generation &amp; Other Non-Utility</b>	<b>\$153</b>	<b>\$2,880</b>	<b>\$757</b>	<b>\$33,521</b>
Current Diluted Share Count	214	170	327	659
<b>Equity Value per Share - Generation &amp; Other Non-Utility</b>	<b>\$1</b>	<b>\$17</b>	<b>\$2</b>	<b>\$51</b>
Target Price per Share	\$25	\$31	\$39	\$62
Current Share Price	\$25.74	\$26.96	\$34.01	\$50.12
Dividend yield	6.0%	2.2%	3.8%	4.2%
Total Return to Target	3%	17%	19%	28%
Carbon NPV, \$/sh	-\$2	-\$2	\$1	\$20
Generation Returns on Capital 2011-2012	2.9%	8.7%	3.6%	8.0%
Generation Free Cash Flow Yield 2011-2012	-0.8%	7.3%	1.1%	0.1%

CL Buy rated Entergy target price is \$101/sh, while Neutral rated Sempra target price is \$59/sh

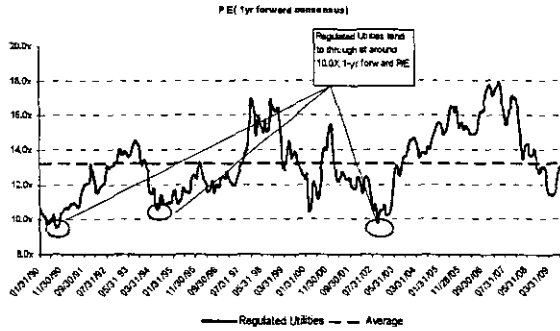
Source: Goldman Sachs Research estimates.

## We downgrade Regulated Utilities to Neutral, as few bell-weather screen attractively

With large cap Regulated Utilities screening less attractive than small/mid cap peers, we downgrade this sub-sector to Neutral. While Regulated Utilities trade below historical levels on Price to Book and on longer term (2012) P/E multiples, multiples on FY2 screen less attractively. More importantly, upside on average in the sub-sector remains tilted toward smaller/mid cap names versus the large cap stocks, driving our sub-sector downgrade to Neutral. Dividend yield spreads remain attractive, but few sector-wide catalysts exist.

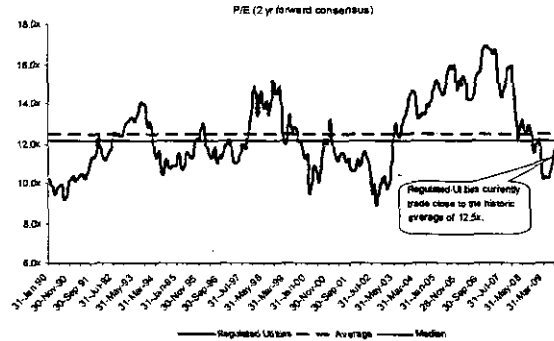
Regulated Utilities currently trade near long-term historic average P/E multiples on 2010 estimates. As shown in Exhibit 27 below, Regulated Utilities currently trade near 12.0x on FY2 or 2010 estimates, versus long-term average levels closer to 12.5x, only a modest discount. We note the long-term average includes trough levels from the high inflationary period in the 1970s and the "electricity crash" from 2001-2002, with the mean and median on FY2 much higher utilizing ranges from just the last 5-7 years, although expected rate base growth currently lags expected levels from 2005-2008 due to cuts in capital spending.

**Exhibit 26: Regulated Utilities currently trade in line with the historic average of 13.2x on FY1 consensus estimates**  
Jan 1, 1990 - current



Source: Factset, Goldman Sachs Research estimates.

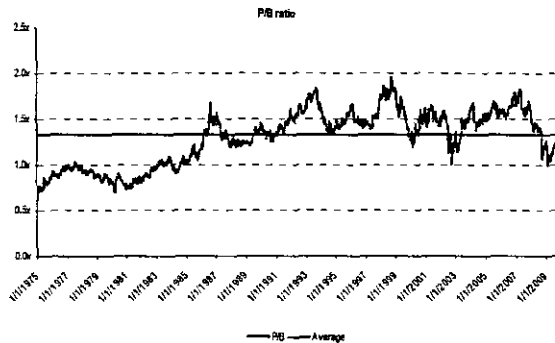
**Exhibit 27: Regulated Utilities currently trade below the historic average of 12.5x on FY2 consensus estimates**  
Jan 1, 1990 - current



Source: Factset, Goldman Sachs Research estimates.

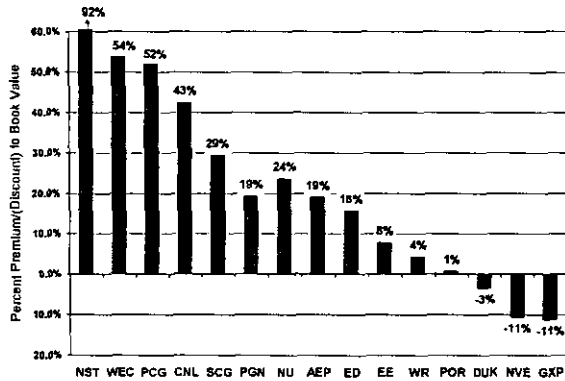
**Regulated Utilities trade slightly below average Price to Book levels and equity issuances in 2010 are not a major overhang.** As detailed in Exhibit 28 below, Regulated Utilities historically traded at Price/Book multiples on average near 1.3-1.4x, with group levels currently near 1.2x. Removing the 1970s trough period, the historical Price/Book level appears closer to 1.5x-1.6x, implying regulated names trade only slightly below historical levels, as outlined in Exhibit 29 below. Since we do not expect significant equity financing needs over 2010, with only a handful of companies likely issuing shares versus a broad wave of issuances in 2009, Regulated Utilities could close this gap on a Price to Book basis, although many key names already have done so.

**Exhibit 28: Regulated Utilities currently trade below historic P/B average of 1.3x – which includes the trough period of the 1970s**  
Jan 1, 1975 - current



Source: Factset, Goldman Sachs Research estimates.

**Exhibit 29: Companies like GXP and NVE trading below book provides opportunities for mean reversion**  
Percent premium/(discount) to book value

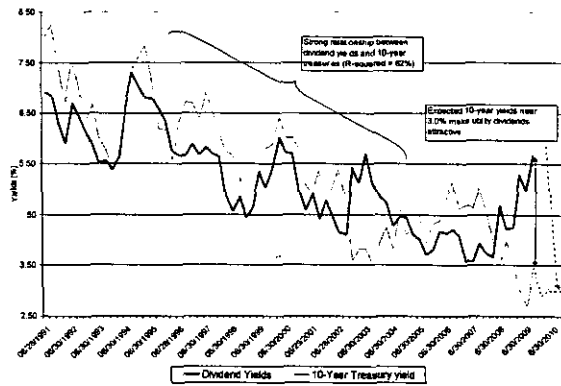


Source: Factset, Goldman Sachs Research estimates.

**Relative to treasury yields, regulated names and the broader group appear attractive.**

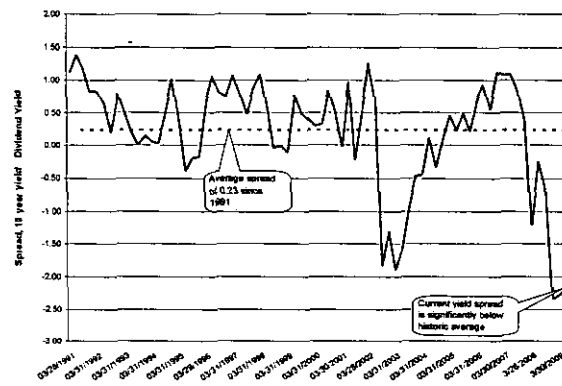
The Goldman Sachs Global ECS team forecasts lower interest rates over the next 12-months, with 10-year Treasury yield expected to decline from the current levels near 3.5% to approximately 3% through 1H2010, as shown in Exhibit 30. Under this scenario, the average dividend yields of Regulated Utilities appear attractive versus the near-term expected 10-year yield. Historically, for Regulated Utilities, lower dividend yields implied higher share prices. As detailed in Exhibit 31, the spread between the dividend yield and the 10-year yield is at a historic low, versus the long-term average of 0.23. We believe that the current spread levels provide a potential for mean reversion, resulting into lower dividend yield for the Regulated Utilities and implying upside to share prices.

**Exhibit 30: Low 10-year Treasury yields indicate share price upside for Regulated Utilities**  
 Yields, 10-year Treasury note and dividends on Regulated Utilities



Source: Factset, Goldman Sachs Research estimates.

**Exhibit 31: The current yield spread is significantly below the historic average**  
 Spread, 10-year Treasury yield and average dividend yield on Regulated Utilities

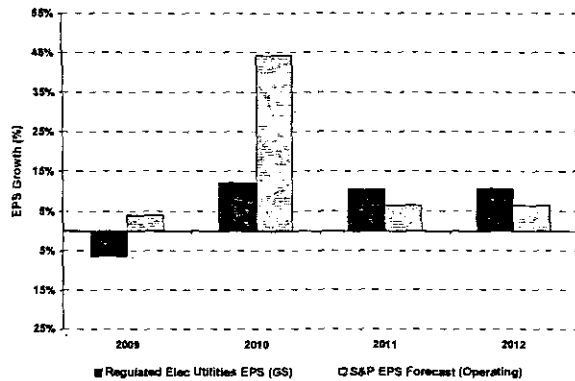


Source: Factset, Goldman Sachs Research estimates.

**Regulated Utilities screen attractively relative to S&P 500, trading at a 12%-20% discount despite stable multi-year average earnings growth.** As shown in Exhibit 32 below, we expect a CAGR EPS growth of approximately 12% through 2012 for Regulated Utilities, below the earnings growth for the S&P 500 of 21%. However, the Regulated Utilities have a less volatile earnings growth profile, with a 5% decline in 2009 given the weak demand fundamentals in 1H2009, followed by a 11%-12% yearly growth over 2010-2012. The S&P 500 index currently trades at 14.0/13.2/12.4X on forecasted 2010-2012 earnings, versus Regulated Utilities at 12.4/11.1/9.9X, implying a 1.0x-1.6x or 12%-20% discount for the regulated group, as shown in Exhibit 33 below. However, the S&P estimates assume a more normal 6%-6.5% growth after 2010, likely conservative given economic improvements and therefore potentially overstating the relative valuation of Regulated Utilities.

**Exhibit 32: We expect Regulated Utilities to post 12% CAGR growth in EPS...**

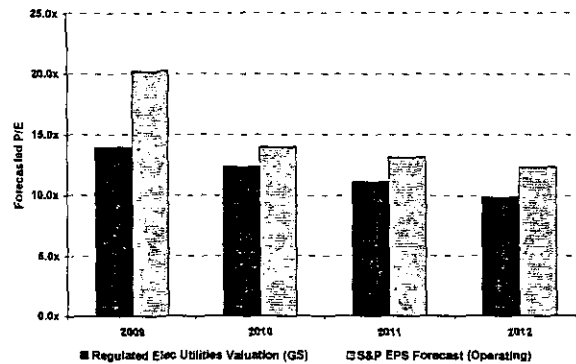
Annual forecasted EPS growth, 2009E-2012E



Source: Goldman Sachs Research estimates.

**Exhibit 33: ...while Regulated Utilities trade at a discount to S&P 500 on P/E multiples**

P/E of Regulated Utilities and the S&P 500, 2009E-2012E



Source: Goldman Sachs Research estimates.

Given expected improvements in utility demand and broader/improved market views overall, we adjust our target prices for Regulated Utilities. We continue to utilize a dual approach for valuing Regulated Utilities, a blend of dividend discount model analysis (assuming a 9% cost of equity and a 2.5% terminal growth rate) and a P/E multiple on projected longer-term 2012 earnings power. We increase our baseline target P/E multiples for Regulated Utilities to reflect improving fundamentals for the group. We also apply a differential in target multiples for the two sub-groups: large cap and small/mid cap regulated utilities-- to reflect the historic premium exhibited by the large cap regulated utilities on long-term earnings power.

- On longer-term earnings power, large cap group trades at a 7%-13% premium versus the small/mid cap peers. As shown in Exhibit 34, we observe a trading disparity between the two sub groups, with large cap regulated utilities trading at a note worthy premium to its small/mid cap peers on longer-term earnings power. We expect this pattern to hold going forward, and alter our P/E based valuation methodology by introducing a 5% differential between the target multiples for the two groups.

**Exhibit 34: Yearly comparison of the trading multiples for large cap and small/mid cap Regulated Utilities, on FY3 consensus estimates**

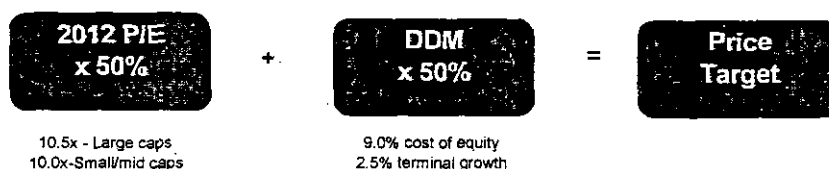
Over years 2005-2009

Year	Large cap	Small/cap	Pre/(disc:)(%)
Over 2005	14.2x	13.3x	7%
Over 2006	14.2x	14.1x	0%
Over 2007	14.6x	13.0x	13%
Over 2008	12.0x	11.1x	8%
Over 2009	10.4x	9.6x	8%

Source: Factset, Goldman Sachs Research estimates.

- Our new target prices imply a 12% average upside from current levels for Regulated Utilities. As shown in Exhibit 35, we value regulated utilities using a 50/50 weighting on: (1) P/E multiples for longer-term regulated earnings power, and (2) a DDM model. Given the improving demand fundamentals and historic trading patterns, we increase our expected base-line P/E multiple from 9.0x to 10.5x for large cap group and 10.0x small/mid cap group, a 5% valuation differential between the two sub-sectors. While we increase the P/E side of our valuation, we maintain our DDM model which incorporates a 2.5% terminal growth rate, roughly in line with expected long-term GDP growth trends.

**Exhibit 35: We use a blend of P/E on 2012 EPS and DDM, with a discounted target multiple for the small/mid group versus large cap Regulated Utilities**  
Our price target methodology



Source: Goldman Sachs Research.

**Exhibit 36: Valuation of Regulated Utilities on a dividend discount model basis are attractive and our blended target prices imply a 12% total return potential**

	Ticker	Rating	9/28 Close	DDM Value	Current Yield	Total Return, DDM Only	2012 EPS	Multiple Applied	P/E-Based Value	Total Return, P/E Only	12-month Target Price	Total Return to 12-Month Target
<b>Large-Cap</b>												
American Electric Power	AEP	Buy	\$31.13	\$38	5.3%	27%	\$3.45	10.5x	\$36	22%	\$37	24%
Consolidated Edison	ED	Sell	\$41.40	\$39	5.7%	1%	\$3.45	10.5x	\$36	-7%	\$38	3%
Duke Energy	DUK	Neutral	\$15.93	\$15	5.8%	2%	\$1.34	10.5x	\$14	-6%	\$15	0%
PG&E	PCG	Neutral	\$40.91	\$43	4.1%	10%	\$4.02	10.5x	\$42	7%	\$43	8%
Progress Energy	PGN	Neutral	\$39.60	\$43	6.3%	14%	\$3.55	10.5x	\$37	0%	\$40	7%
<b>Large-Cap Mean</b>					5.4%	11%				3%		6%
<b>Large-Cap Median</b>					5.7%	10%				0%		7%
<b>Mid &amp; Small-Cap</b>												
Cleco	CNL	Neutral	\$25.10	\$26	3.6%	7%	\$2.39	10.0x	\$23.87	-1%	\$25	3%
El Paso Electric	EE	Neutral	\$17.84	\$20	0.0%	12%	\$2.10	10.0x	\$21	18%	\$21	18%
Great Plains Energy	GXP	Buy	\$18.17	\$22	4.6%	28%	\$2.13	10.0x	\$21	22%	\$22	26%
Northeast Utilities	NU	Neutral	\$23.99	\$28	4.0%	19%	\$2.51	10.0x	\$25	8%	\$26	12%
NSTAR	NST	Sell	\$32.09	\$32	4.7%	3%	\$2.55	10.0x	\$26	-16%	\$29	-5%
NV Energy	NVE	Neutral	\$11.59	\$15	3.5%	31%	\$1.41	9.0x	\$13	13%	\$14	24%
Portland General	POR	Neutral	\$20.07	\$24	5.1%	24%	\$2.20	10.0x	\$22	15%	\$23	20%
SCANA	SGG	Neutral	\$35.30	\$42	5.3%	24%	\$3.80	10.0x	\$38	13%	\$40	19%
Westar	WR	Neutral	\$19.60	\$24	6.0%	28%	\$2.18	10.0x	\$22	17%	\$23	23%
Wisconsin Energy	WEC	Neutral	\$45.11	\$49	3.0%	12%	\$4.63	10.0x	\$46	6%	\$48	8%
<b>Mid &amp; Small-Cap Mean</b>					4.0%	19%				8%		15%
<b>Mid &amp; Small-Cap Median</b>					4.3%	21%				13%		18%
<b>Regulated Utilities Mean</b>					4.5%	18%				7%		12%
<b>Regulated Utilities Median</b>					4.7%	14%				8%		12%

Source: Goldman Sachs Research estimates.

**As investors begin to gain visibility on the improving power fundamentals in 2010, we believe multiples will expand for Regulated Utilities and the regulated segments within Diversified Utilities.** We utilize a dual approach for valuing Regulated Utilities, applying a 50% weighting to our dividend discount model analysis (assuming a 9% cost of equity and a 2.5% terminal growth rate) and a 50% weighting to P/E multiples on projected longer-term 2012 earnings power. We raise our baseline P/E multiple on 2012 from 9.0X to 10.0X for Small & Mid Cap Regulated Utilities and 10.5X for large cap Regulated Utilities.

- **We reiterate our BUY rating on large-cap American Electric Power (AEP), our favorite large-cap regulated name, while affirming our Conviction Sell rating on Con Edison (ED).** AEP trades at a 16%-18% discount on projected 2010-2012 earnings power and provides an attractive dividend yield. We maintain our Conviction Sell rating on Con Edison given (1) relative valuation, (2) a projected \$400mm equity issuance, which is at the high end of management guidance, and which we believe is imminent, and (3) unimpressive earnings growth.

**We reiterate our Buy rating on Great Plains Energy (GXP), but remove it from the Conviction Buy list, and downgrade Portland General Electric (POR) from Buy to Neutral.** We believe GXP trades at a substantial discount to peers on LT normalized estimates despite its top quartile earnings growth trajectory. We downgrade POR because we remain (1) below consensus estimates on 2010, and (2) see a better opportunity in CL Buy-rated GXP.

## Primary catalysts and key risks

### Catalysts:

In our view, a series of events, including various regulatory proceedings, a major industry conference and 3Q2009 reporting season will drive share prices in the near-term.

- **A number of rate cases and regulatory proceedings in the next 90-120 days are key to monitor:** Multiple companies within our universe – both among Regulated and Diversified Utilities – currently face key decision dates or interim recommendations on requests for revenue increases in rate case proceedings. Large cap names such as Progress Energy (Florida), Duke Energy (Carolinas) and Ameren (Missouri) will receive PSC staff recommendations or final orders in key rate cases that impact 2010.
- **A major industry conference – the EEI conference – in November will provide greater insight into 2010-2011 outlooks.** We expect many Regulated and Diversified Utilities in our universe to introduce guidance at the Edison Electric Institute's (EEI) Conference in early November. Given our 2010 forecasts, we anticipate guidance ranges for most companies reporting to be within the range of consensus expectations, with only a handful of disappointments or surprises.
- **Third quarter earnings presents a risk, although with EEI approaching, investors likely will focus more on 2010-2011:** While we are positioned below consensus into the 3Q2009 earnings season, our conversations with investors suggest the buy-side is ahead of sell-side estimates in anticipating that weak weather and commodity pricing will weigh on the quarter. We believe investors are more likely to be focused on long-term earnings potential and growth, and should react favorably to management commentary on (1) lower-than-expected equity financing needs in 2010, and (2) stabilizing demand fundamentals.

**Exhibit 37: We are below consensus on Q3 2009 after incorporating new gas and demand forecasts, however we are increasingly confident investors will look through the quarter**

	EPS GS FY 2009 Q3	EPS Cons FY 2009 Q3	% Dif.
NVE	\$0.59	\$0.74	-19.6%
NST	\$0.80	\$0.83	-2.6%
PGN	\$1.11	\$1.18	-5.5%
DUK	\$0.36	\$0.40	-8.3%
AEP	\$0.80	\$0.86	-6.3%
POR	\$0.27	\$0.27	1.3%
NU	\$0.32	\$0.38	-16.9%
PCG	\$0.91	\$0.92	-1.4%
CNL	\$0.75	\$0.76	-1.6%
SCG	\$0.83	\$0.79	4.5%
WEC	\$0.49	\$0.57	-14.6%
EE	\$0.52	\$0.58	-10.6%
GXP	\$0.68	\$0.78	-12.4%
WR	\$0.81	\$0.91	-10.6%
<b>Average</b>			<b>-7.5%</b>
AEE	\$0.89	\$1.00	-11.0%
EIX	\$1.12	\$1.03	8.7%
EXC	\$0.92	\$0.98	-6.0%
SRE	\$1.17	\$1.21	-2.7%
ETR	\$2.58	\$2.55	1.1%
<b>Average</b>			<b>-2.0%</b>
	EBITDA GS FY 2009 Q3	EBITDA Cons FY 2009 Q3	% Dif.
NRG	\$399	\$348	-17.5%
ORA	\$38	\$40	-5.7%
RRR	\$133	\$90	47.3%
<b>Average</b>			<b>-8.0%</b>

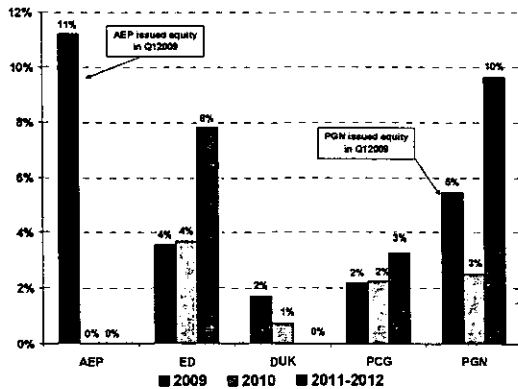
Source: Goldman Sachs Research, Quantum.

**Risks:**

Primary risks for utilities and power generators include (1) lower than expected power demand or power pricing, (2) increased environmental spending, and (3) higher than forecast financing needs.

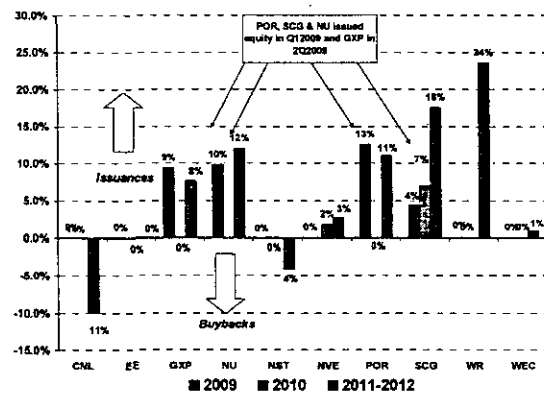
- **Demand risk** – Lower-than-expected electricity demand could decrease earnings for regulated segments and weaken overall commodity prices, negatively impacting IPPs and Diversified Utilities.
- **Environmental capital risk** – Increased requirements for pollution controls to reduce SOx, NOx or mercury emissions could drive higher spending or litigation risk for companies with coal fired generation.
- **Financing risk** – Unlike when entering 2009, where we forecast a sizable level of equity issuances for 1H2009, we do not see a broader “wave” of equity issuances in 2010, primarily due to company efforts to reduce spending levels. Higher than expected equity financing needs or rising cost of debt would negatively impact utility shares.

**Exhibit 38: Among the large cap Regulated Utilities, ED has significant equity financing needs over 2009/2010**  
Net equity issuances among large cap regulated utilities as a percentage of market capitalization



Source: Goldman Sachs Research estimates.

**Exhibit 39: Among the mid/small cap regulated utilities, there are few with significant equity needs**  
Net equity issuances among small/mid cap regulated utilities as a percentage of market capitalization



Source: Goldman Sachs Research estimates.



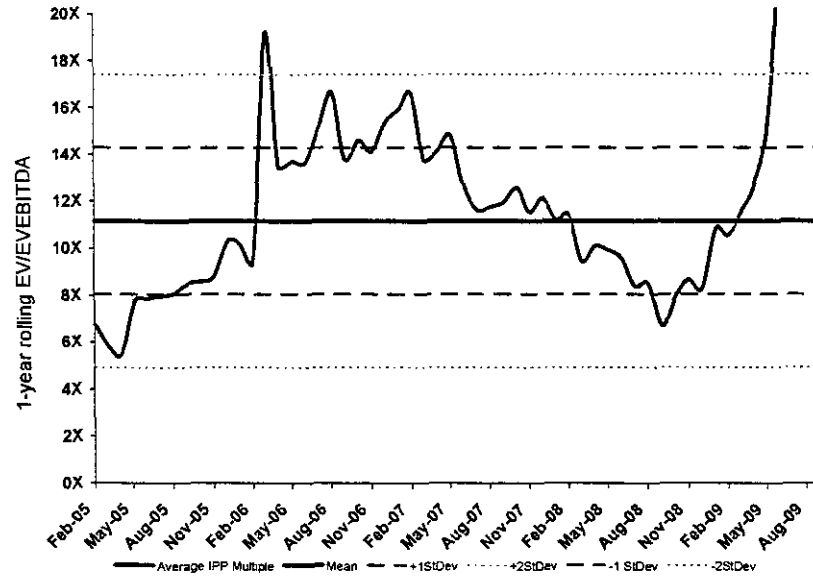
## Appendices

### Appendix A: Sum of the parts valuation for Sempra Energy

<b>Sempra Energy Sum of the Parts Valuation</b>				
	Segment Earnings or Equiv.	Multiple / Value Applied	Metric Desc.	Per Share Value
<b>California Utilities</b>				
SDG&E 2012E EPS	\$2.01			
SoCalGas 2012E EPS	\$1.11			
<b>Total</b>	<b>\$3.13</b>	<b>10.5x</b>	<b>(P/E)</b>	<b>\$33</b>
<b>Generation</b>				
2011/2012 EBITDA	274	7.0x	(EV/EBITDA)	
Implied EV	\$1,921			
Debt	\$0			
Equity Value	\$1,921			<b>\$8</b>
<b>Pipelines &amp; Storage</b>				
2012 EBITDA Forecast	\$549	6.5x	(EV/EBITDA)	
Implied EV	\$3,569			
Equity Value	\$3,569			<b>\$14</b>
<b>LNG</b>				
Cameron and Energia Costa Azul			(DCF)	<b>\$11</b>
<b>Commodities</b>				
Book Value, SRE Portion	\$1,600	1.0x	(P/B)	<b>\$6</b>
<b>Parent/Other</b>				
Net Debt	\$3,179			<b>(\$13)</b>
<b>Total SoP Value</b>				<b>\$59</b>

Source: Goldman Sachs Research estimates.

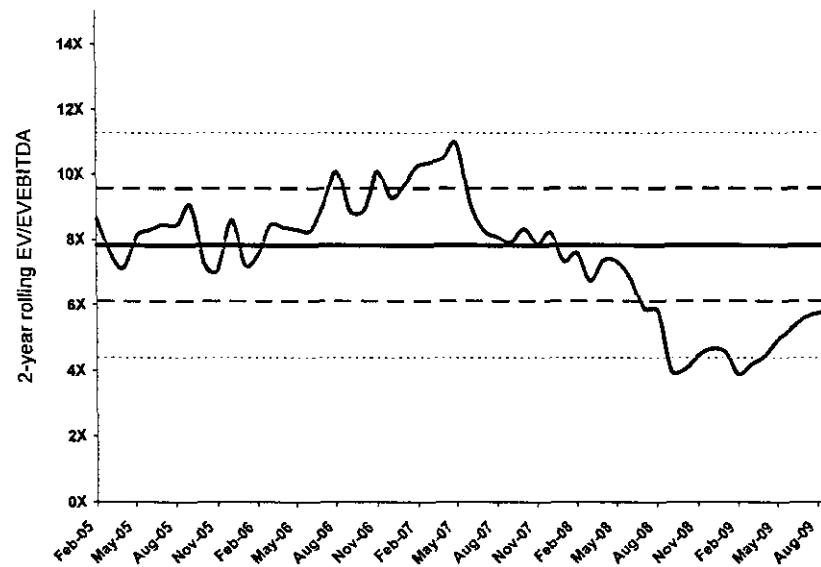
**Appendix B: One year forward EV/EBITDA multiples are extremely volatile**  
 1 yr forward EV/EBITDA multiples of base-load IPPs (NRG, RRI, and MIR)



Source: Goldman Sachs Research Estimates, Factset.

**Appendix C: Two year forward EV/EBITDA multiples remain one standard deviation below mean**

2 yr forward EV/EBITDA multiples of base-load IPPs (NRG, RRI, and MIR)



Source: Goldman Sachs Research Estimates, Factset.

## Appendix D: Old versus new EPS and EBITDA estimates

EPS Revisions		2009			2010			2011			2012		
Ticker	Old	New	%	Old	New	%	Old	New	%	Old	New	%	
<b>Large Cap Regulated Utilities</b>													
American Elec Power	AEP	\$2.85	\$2.70	-5%	\$3.09	\$2.99	-3%	\$3.39	\$3.33	-2%	\$3.47	\$3.45	-1%
Duke Energy	DUK	\$1.19	\$1.11	-7%	\$1.17	\$1.17	0%	\$1.32	\$1.30	-2%	\$1.34	\$1.34	0%
Consolidated Edison	ED	\$3.03	\$2.99	-1%	\$3.22	\$3.21	0%	\$3.31	\$3.31	0%	\$3.45	\$3.45	0%
PG&E	PGG	\$3.08	\$3.08	0%	\$3.45	\$3.45	0%	\$3.81	\$3.81	0%	\$4.02	\$4.02	0%
Progress Energy	PGN	\$2.92	\$2.88	-1%	\$3.05	\$2.99	-2%	\$3.31	\$3.32	0%	\$3.46	\$3.55	3%
<b>Large Cap Average</b>													
			-3%			-1%				-1%		0%	
<b>Mid &amp; Small Cap Regulated Utilities</b>													
Cleco	CNL	\$1.66	\$1.64	-2%	\$2.14	\$2.14	0%	\$2.29	\$2.27	-1%	\$2.38	\$2.39	0%
El Paso Electric	EE	\$1.40	\$1.34	-4%	\$1.34	\$1.28	-4%	\$1.52	\$1.47	-3%	\$2.10	\$2.10	0%
Great Plains Energy	GXP	\$1.24	\$1.17	-6%	\$1.56	\$1.54	-1%	\$2.01	\$2.01	0%	\$2.13	\$2.13	0%
NSTAR	NST	\$2.32	\$2.33	1%	\$2.25	\$2.29	2%	\$2.49	\$2.50	1%	\$2.53	\$2.55	1%
Northeast Utilities	NU	\$1.76	\$1.68	-4%	\$1.89	\$1.85	-2%	\$2.02	\$2.00	-1%	\$2.52	\$2.51	-1%
Portland General Electric	POR	\$1.43	\$1.45	1%	\$1.66	\$1.63	-2%	\$2.21	\$2.21	0%	\$2.20	\$2.20	0%
SCANA Corporation	SCG	\$2.85	\$2.85	0%	\$3.07	\$2.98	-3%	\$3.35	\$3.35	0%	\$3.82	\$3.80	-1%
NV Energy	NVE	\$0.80	\$0.69	-14%	\$1.03	\$0.94	-9%	\$1.24	\$1.12	-10%	\$1.42	\$1.41	0%
Wisconsin Energy	WEC	\$3.14	\$3.05	-3%	\$3.98	\$4.01	1%	\$4.55	\$4.13	-9%	\$4.60	\$4.63	1%
Westar Energy	WR	\$1.75	\$1.45	-17%	\$1.80	\$1.64	-9%	\$1.79	\$1.57	-13%	\$2.36	\$2.18	-8%
<b>Mid &amp; Small Cap Average</b>													
			-5%			-3%				-4%		-1%	
<b>Regulated Average</b>													
			-4%			-2%				-3%		0%	
<b>Diversified Utilities</b>													
Ameren	AEE	\$2.35	\$2.21	-6%	\$2.23	\$2.12	-5%	\$2.65	\$2.50	-6%	\$2.72	\$2.60	-4%
Allegheny Energy	AYE	\$2.15	\$2.15	0%	\$2.52	\$2.47	-2%	\$3.78	\$3.57	-6%	\$2.64	\$2.42	-8%
Edison International	EIX	\$2.97	\$2.92	-2%	\$3.57	\$3.56	0%	\$3.91	\$3.84	-2%	\$3.45	\$3.33	-3%
Entergy	ETR	\$6.56	\$6.50	-1%	\$6.82	\$6.67	-2%	\$8.07	\$7.95	-1%	\$8.35	\$8.21	-2%
Exelon	EXC	\$4.03	\$4.02	0%	\$3.62	\$3.58	-1%	\$4.11	\$4.11	0%	\$3.10	\$3.04	-2%
Sempra Energy	SRE	\$4.48	\$4.46	0%	\$4.95	\$4.93	0%	\$5.54	\$5.55	0%	\$5.60	\$5.61	0%
<b>Average</b>													
			-2%			-2%				-2%		-3%	
<b>Independent Power Producers (IPPs)</b>													
NRG Energy	NRG	\$1.89	\$1.86	-2%	\$2.34	\$2.34	0%	\$2.31	\$2.25	-3%	\$2.11	\$2.05	-3%
Ormat Technologies	ORA	\$1.29	\$1.23	-4%	\$1.56	\$1.27	-18%	\$1.49	\$1.25	-16%	\$1.77	\$1.35	-24%
RRJ Energy	RRI	(\$0.84)	(\$0.77)	9%	\$0.10	\$0.19	103%	\$0.53	\$0.64	21%	\$0.05	\$0.21	NA
<b>Average</b>													
			1%			28%				1%		-13%	
<b>EBITDA Revisions</b>													
IPPs	Ticker	Old	New	%	Old	New	%	Old	New	%	Old	New	%
NRG Energy	NRG	\$2,462	\$2,448	-1%	\$2,620	\$2,620	0%	\$2,534	\$2,513	-1%	\$2,377	\$2,355	-1%
Ormat Technologies	ORA	\$151	\$148	-2%	\$197	\$180	-9%	\$263	\$248	-6%	\$297	\$272	-8%
RRJ Energy	RRI	\$98	\$141	44%	\$513	\$567	10%	\$604	\$664	10%	\$386	\$455	18%
<b>Average</b>													
			14%			1%				1%		3%	

Source: Goldman Sachs Research Estimates, Factset; EBITDA estimates are Adjusted EBITDA, not GAAP EBITDA

---

**Appendix E: Old versus new price targets**

	Ticker	Old Price Target	New Price Target
<b>Large Cap Regulated</b>			
American Elec Power	AEP	\$34	\$37
Duke Energy	DUK	\$14	\$15
Consolidated Edison	ED	\$35	\$38
PG&E	PCG	\$40	\$43
Progress Energy	PGN	\$36	\$40
<b>Small / Mid Cap Regulated</b>			
Cleco	CNL	\$24	\$25
El Paso Electric	EE	\$19	\$21
Great Plains Energy	GXP	\$21	\$22
Northeast Utilities	NU	\$25	\$26
NSTAR	NST	\$27	\$29
NV Energy	NVE	\$13	\$14
Portland General Electric	POR	\$22	\$23
SCANA Corporation	SCG	\$38	\$40
Westar Energy	WR	\$23	\$23
Wisconsin Energy	WEC	\$45	\$48
<b>Diversified Utilities</b>			
Ameren	AEE	\$23	\$25
Allegheny Energy	AYE	\$30	\$31
Edison International	EIX	\$33	\$39
Entergy	ETR	\$93	\$101
Exelon	EXC	\$60	\$62
Sempra Energy	SRE	\$54	\$59
<b>IPPs</b>			
NRG Energy	NRG	\$32	\$37
Omat Technologies	ORA	\$43	\$41
RRI Energy	RRI	\$6	\$9

---

Source: Goldman Sachs Research estimates, Factset.

**Appendix F: National and regional weather-adjusted demand – YoY weather a headwind in 3Q09, but benefit in 4Q09/1Q10**

Demand Forecasts		3Q2009	4Q2009	1Q2010	2Q2010	3Q2010	4Q2010	2010	2011	2012
National Weather Adjusted		-2.9%	-2.2%	-0.6%	0.0%	0.8%	1.3%	0.4%	1.5%	1.7%
National Non-Weather Adjusted		-2.7%	-2.4%	-0.9%	0.3%	0.8%	1.3%	0.4%	1.5%	1.7%
Mountain	NVE	-4.7%	-1.8%	0.5%	1.3%	0.8%	1.3%	1.0%	1.5%	1.7%
Pacific	POR	-1.9%	-2.4%	-0.5%	1.6%	0.8%	1.3%	0.8%	1.5%	1.7%
Middle Atlantic	EXC*	-3.0%	-2.3%	-1.4%	1.7%	0.8%	1.3%	0.6%	1.5%	1.7%
E. N. Central	EXC* AEP* DUK* WEC	-4.9%	-3.3%	-1.3%	1.2%	0.8%	1.3%	0.5%	1.5%	1.7%
W. N. Central	AEE GXP WR	-4.3%	-2.6%	-0.9%	0.0%	0.8%	1.3%	0.3%	1.5%	1.7%
New England	NST NU	-3.2%	-2.5%	-2.2%	1.2%	0.8%	1.3%	0.3%	1.5%	1.7%
East South Central	ETR*	-3.4%	-2.3%	0.71%	-3.01%	0.85%	1.28%	0.0%	1.5%	1.7%
South Atlantic	DUK* PGN SCG	-2.2%	-1.4%	-0.3%	-2.1%	0.8%	1.3%	-0.1%	1.5%	1.7%
West South Central	ETR* AEP* CNL EE	-0.2%	-1.4%	0.4%	-3.2%	0.9%	1.3%	-0.1%	1.5%	1.7%

\* OPERATES IN MULTIPLE EIA JURISDICTIONS

NOTE - ASSUME HIGHER LONG-TERM GROWTH RATES FOR EE AND NVE GIVEN CUSTOMER GROWTH IN JURISDICTIONS

Source: GS Research Estimates, Factset.

**Appendix G: AEP and GXP screen as Buys, while NST and ED screen as Sells  
Target price and EPS summary**

Target Price and EPS Summary														
Ticker	Rating	Close	Price	Tot Ret	EPS				P/E				Dividend	
					09/28/09	Target	to Target	2009	2010	2011	2012	2009		2010
<b>Regulated Utilities</b>														
<b>Large-Cap</b>														
American Elec Power	AEP	Buy	\$31.13	\$37	24%	\$2.70	\$2.99	\$3.33	\$3.45	11.5x	10.4x	9.3x	8.0x	5.3%
Duke Energy	DUK	Neutral	\$15.93	\$15	0%	\$1.11	\$1.17	\$1.30	\$1.34	14.4x	13.7x	12.3x	11.9x	5.8%
Consolidated Edison	ED	Sell	\$41.40	\$38	-3%	\$2.99	\$3.21	\$3.31	\$3.45	13.8x	12.9x	12.5x	12.0x	5.7%
PG&E	PCG	Neutral	\$40.91	\$43	9%	\$3.08	\$3.45	\$3.81	\$4.02	13.3x	11.8x	10.7x	10.2x	4.1%
Progress Energy	PGN	Neutral	\$39.60	\$40	7%	\$2.88	\$2.99	\$3.32	\$3.55	13.7x	13.2x	11.9x	11.2x	6.3%
Large-Cap Mean					8%					13.3x	12.4x	11.4x	10.8x	5.4%
Large-Cap Median					7%					13.7x	12.9x	11.9x	11.2x	5.7%
<b>Mid &amp; Small-Cap</b>														
Cleco	CNL	Neutral	\$25.10	\$25	3%	\$1.64	\$2.14	\$2.27	\$2.39	15.3x	11.7x	11.0x	10.5x	3.8%
El Paso Electric	EE	Neutral	\$17.84	\$21	18%	\$1.34	\$1.28	\$1.47	\$2.10	13.3x	13.9x	12.1x	8.5x	0.0%
Great Plains Energy	GXP	Buy	\$18.17	\$22	26%	\$1.17	\$1.54	\$2.01	\$2.13	15.5x	11.8x	9.0x	8.5x	4.8%
NSTAR	NST	Sell	\$32.09	\$29	-5%	\$2.33	\$2.29	\$2.50	\$2.55	13.7x	14.0x	12.8x	12.6x	4.7%
Northeast Utilities	NU	Neutral	\$23.99	\$26	12%	\$1.68	\$1.85	\$2.00	\$2.51	14.2x	13.0x	12.0x	9.6x	4.0%
NV Energy	NVE	Neutral	\$11.59	\$14	24%	\$0.69	\$0.94	\$1.12	\$1.41	16.8x	12.3x	10.3x	8.2x	3.5%
Portland General Electric	POR	Neutral	\$20.07	\$23	20%	\$1.45	\$1.63	\$2.21	\$2.20	13.9x	12.3x	9.1x	9.1x	5.1%
SCANA Corporation	SCG	Neutral	\$35.30	\$40	19%	\$2.85	\$2.98	\$3.35	\$3.80	12.4x	11.8x	10.5x	9.3x	5.3%
Wisconsin Energy	WEC	Neutral	\$45.11	\$48	9%	\$3.05	\$4.01	\$4.13	\$4.63	14.8x	11.2x	10.8x	9.7x	3.0%
Westar Energy	WR	Neutral	\$19.60	\$23	23%	\$1.45	\$1.84	\$1.57	\$2.18	13.5x	12.0x	12.5x	9.0x	6.0%
Small / Mid Cap Mean					15%					14.3x	12.4x	11.0x	9.5x	4.0%
Small / Mid Cap Median					18%					13.8x	12.0x	11.0x	9.2x	4.3%
Regulated Utilities Mean					12%					14.0x	12.4x	11.1x	9.9x	4.5%
Regulated Utilities Median					12%					13.8x	12.3x	11.0x	9.6x	4.7%

Note: ED is on the Conviction List

Source: Goldman Sachs Research Estimates, Factset.

### Appendix H: We reiterate Buy ratings on ETR and EXC, while upgrading RRI target price and eps summary

P/E Multiples Summary																	
D	Ticker	Rating	Close 09/28/09	Price Target	Tot Ret. to Target	Estimates				P/E Multiples							
						2009	2010	2011	2012	2009	2010	2011	2012				
Natural Gas Price Forecast (\$/MMBtu)						\$4.25	\$5.50	\$7.00	\$6.50								
<b>Diversified Utilities</b>																	
	Ameren	AEE	Sell	\$25.74	\$25	3%	\$2.21	\$2.12	\$2.50	\$2.60	11.7x	12.2x	10.3x	9.9x			
	Allegheny Energy	AYE	Neutral	\$26.96	\$31	17%	\$2.15	\$2.47	\$3.57	\$2.42	12.5x	10.9x	7.6x	11.1x			
	Edison International	EIX	Neutral	\$34.01	\$39	19%	\$2.92	\$3.56	\$3.84	\$3.33	11.8x	9.6x	8.9x	10.2x			
	Entergy	ETR	Buy	\$79.64	\$101	31%	\$6.50	\$6.67	\$7.95	\$8.21	12.3x	11.9x	10.0x	9.7x			
	Exelon	EXC	Buy	\$50.12	\$62	28%	\$4.02	\$3.58	\$4.11	\$3.04	12.5x	14.0x	12.2x	16.5x			
	Sempra Energy	SRE	Neutral	\$50.17	\$59	20%	\$4.46	\$4.93	\$5.55	\$5.61	11.2x	10.2x	9.0x	8.9x			
						Diversified Utilities Mean				12.0x		11.5x		9.7x		11.1x	
						Diversified Utilities Median				12.0x		11.4x		9.5x		10.0x	
<b>IPP's</b>																	
	NRG Energy	NRG	Buy	\$27.20	\$37	36%	\$1.86	\$2.34	\$2.25	\$2.05	14.7x	11.6x	12.1x	13.3x			
	RRI Energy	RRI	Buy	\$6.98	\$9	29%	(\$0.77)	\$0.19	\$0.64	\$0.21	NA	35.9x	10.9x	33.1x			
						Special Situation and IPP Median				24.0x		26.6x		18.6x		25.6x	
						Special Situation and IPP Mean				24.0x		32.2x		12.1x		30.5x	

Note: ETR and RRI are on the Conviction List

Source: Goldman Sachs Research estimates, Factset.

### Appendix I: Action Off: Americas Buy List – Portland General

Since being added to Americas Buy List on August 17, 2009 POR is up 5.7% versus the XLU up 2.8% and the S&P500 up 8.5%. In the last 12 months, POR is down 17.5% versus the S&P500 down 12.4%.

Company	Ticker	Primary analyst	Price currency	Price as of 09/28/09	Price performance since 08/17/09	3 month price performance	6 month price performance	12 month price performance
<b>Americas Power &amp; Utilities Peer Group</b>								
Portland General Electric Co.	POR	Michael Lapides	\$	20.09	5.7%	2.4%	16.9%	-17.5%
AGL Resources Inc.	AGL	Theodore Durbin	\$	35.08	3.3%	11.2%	30.5%	8.6%
Allegheny Energy, Inc.	AYE	Michael Lapides	\$	27.01	8.3%	4.0%	15.4%	-29.4%
Ameren Corp.	AEE	Michael Lapides	\$	25.74	-1.3%	4.9%	10.4%	-35.9%
American Electric Power	AEP	Michael Lapides	\$	31.18	0.9%	9.0%	18.7%	-16.1%
Alamos Energy Corp.	ATO	Theodore Durbin	\$	28.31	2.8%	12.8%	19.9%	3.1%
Cleco Corp.	CNL	Michael Lapides	\$	25.14	3.8%	15.3%	12.7%	-1.5%
Consolidated Edison, Inc.	ED	Michael Lapides	\$	41.41	5.2%	11.8%	7.9%	-5.2%
Duke Energy Corporation	DUK	Michael Lapides	\$	15.94	4.4%	10.6%	11.5%	-11.6%
Edison International	EIX	Michael Lapides	\$	34.07	7.5%	8.9%	17.7%	-15.0%
El Paso Electric Co.	EE	Michael Lapides	\$	17.84	13.3%	25.5%	29.7%	-16.8%
Entergy Corp.	ETR	Michael Lapides	\$	79.80	2.1%	4.4%	17.4%	-11.9%
Exelon Corp.	EXC	Michael Lapides	\$	50.22	1.9%	-0.9%	9.8%	-25.2%
Great Plains Energy Inc.	GXP	Michael Lapides	\$	18.17	4.9%	17.8%	32.1%	-19.1%
Northeast Utilities	NU	Michael Lapides	\$	24.02	1.7%	8.6%	10.7%	-7.3%
NRG Energy Inc.	NRG	Michael Lapides	\$	27.15	-2.0%	14.1%	54.3%	2.8%
NSTAR	NST	Michael Lapides	\$	32.11	1.0%	1.7%	2.3%	-6.3%
NV Energy, Inc.	NVE	Michael Lapides	\$	11.60	-1.7%	7.7%	21.0%	14.7%
Omat Technologies, Inc.	ORA	Michael Lapides	\$	41.18	12.4%	4.5%	48.3%	-0.9%
PG&E Corporation	PCG	Michael Lapides	\$	40.96	2.5%	7.9%	5.6%	8.9%
Progress Energy Inc.	PGN	Michael Lapides	\$	39.88	1.3%	5.0%	10.0%	-9.6%
RRI Energy, Inc.	RRI	Michael Lapides	\$	7.00	26.0%	54.2%	105.9%	-42.7%
SCANA Corp.	SCG	Michael Lapides	\$	35.32	5.2%	10.0%	14.2%	-13.0%
Sempra Energy	SRE	Michael Lapides	\$	50.24	-0.2%	0.9%	12.2%	-5.5%
Westar Energy Inc.	WR	Michael Lapides	\$	19.62	-3.3%	6.5%	12.1%	-17.7%
WGL Holdings, Inc.	WGL	Theodore Durbin	\$	33.60	1.7%	4.3%	1.2%	0.9%
Wisconsin Energy Corp.	WEC	Michael Lapides	\$	45.16	0.9%	11.0%	10.5%	-1.2%
<b>S&amp;P 500</b>				<b>1062.98</b>	<b>8.5%</b>	<b>15.7%</b>	<b>30.3%</b>	<b>-12.4%</b>
<b>Index performance in stock price currency</b>				<b>1062.98</b>	<b>8.5%</b>	<b>15.7%</b>	<b>30.3%</b>	<b>-12.4%</b>

Note: Prices as of most recent available close, which could vary from the price date indicated above

This table shows movement in absolute share price and not total shareholder return. Results presented should not and cannot be viewed as an indicator of future performance.

Source: Factset, Quantum database.

**Appendix J: Action Off: Americas Conviction Buy List – Great Plains Energy**

Since being added to Americas Conviction Buy List on August 17, 2009 GXP is up 4.9% versus the XLU up 2.8% and the S&P500 up 8.5%. In the last twelve months, GXP is down 19.1% versus the S&P500 down 12.4%.

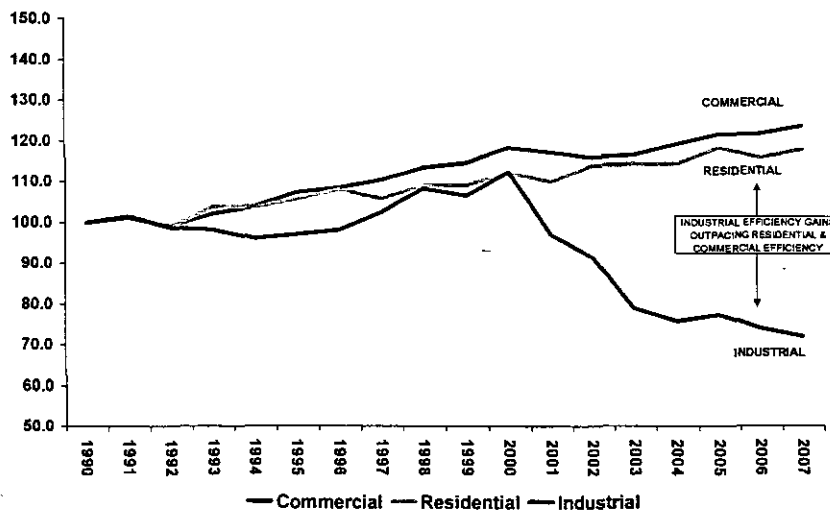
Company	Ticker	Primary analyst	Price as of 09/23/09	Price performance since 08/17/09	3 month price performance	6 month price performance	12 month price performance
<b>Americas Power &amp; Utilities Peer Group</b>							
Great Plains Energy Inc.	GXP	Michael Lapides	\$ 18.17	4.9%	17.8%	32.1%	-19.1%
AGL Resources Inc.	AGL	Theodore Durbin	\$ 36.08	3.3%	11.2%	30.5%	8.9%
Allegheny Energy, Inc.	AEE	Michael Lapides	\$ 27.01	9.3%	4.0%	15.4%	-29.4%
Amgen Corp.	AEE	Michael Lapides	\$ 23.74	-1.3%	4.9%	10.4%	-33.9%
American Electric Power	AMP	Michael Lapides	\$ 31.16	0.9%	9.0%	18.7%	-18.1%
Atmos Energy Corp.	ATO	Theodore Durbin	\$ 28.31	2.6%	12.8%	19.9%	3.1%
Cleco Corp.	CNL	Michael Lapides	\$ 25.14	3.8%	15.3%	12.7%	-1.5%
Consolidated Edison, Inc.	ED	Michael Lapides	\$ 41.41	5.2%	11.8%	7.9%	-5.2%
Duke Energy Corporation	DUK	Michael Lapides	\$ 15.94	4.4%	10.6%	11.5%	-11.6%
Edison International	EIX	Michael Lapides	\$ 34.07	7.5%	8.9%	17.7%	-15.0%
El Paso Electric Co.	EEP	Michael Lapides	\$ 17.84	13.3%	25.5%	28.7%	-16.8%
Entergy Corp.	ETR	Michael Lapides	\$ 79.80	2.1%	4.4%	17.4%	-11.9%
Exelon Corp.	EXC	Michael Lapides	\$ 50.22	1.9%	-0.9%	9.8%	-25.2%
Northwest Utilities	NU	Michael Lapides	\$ 24.02	1.7%	8.6%	10.7%	-7.3%
NRG Energy Inc.	NRG	Michael Lapides	\$ 27.15	-2.0%	14.1%	54.3%	2.8%
NSTAR	NST	Michael Lapides	\$ 32.11	1.0%	1.7%	2.3%	-5.9%
NV Energy, Inc.	NVE	Michael Lapides	\$ 11.80	-1.7%	7.7%	21.0%	14.7%
Orrmet Technologies, Inc.	ORA	Michael Lapides	\$ 41.18	12.4%	4.5%	48.5%	-0.9%
PG&E Corporation	PCG	Michael Lapides	\$ 40.96	2.5%	7.9%	5.8%	6.8%
Portland General Electric Co.	POR	Michael Lapides	\$ 20.09	5.7%	2.4%	16.9%	-17.5%
Progress Energy Inc.	PGR	Michael Lapides	\$ 39.66	1.3%	5.0%	10.0%	-9.8%
RRI Energy, Inc.	RRI	Michael Lapides	\$ 7.00	26.8%	54.2%	105.9%	-42.7%
SCANA Corp.	SCG	Michael Lapides	\$ 35.32	5.2%	10.0%	14.2%	-13.0%
Sempra Energy	SRE	Michael Lapides	\$ 50.24	-0.2%	0.9%	12.2%	-5.9%
Westar Energy Inc.	WR	Michael Lapides	\$ 19.82	-3.3%	6.6%	12.1%	-17.7%
WGL Holdings, Inc.	WGL	Theodore Durbin	\$ 33.60	1.7%	4.3%	1.2%	0.9%
Wisconsin Energy Corp.	WEC	Michael Lapides	\$ 45.18	0.9%	11.0%	10.5%	-1.2%
S&P 500			1062.88	8.5%	15.7%	30.3%	-12.4%
Index performance in stock price currency			1062.88	8.5%	15.7%	30.3%	-12.4%

Note: Prices as of most recent available close, which could vary from the price date indicated above  
 This table shows movement in absolute share price and not total shareholder return. Results presented should not and cannot be viewed as an indicator of future performance.

Source: Factset, Quantum database.

**Appendix K: We observed significant efficiency gains by the industrial customer class electricity usage by customer, indexed to 1990 levels**

Energy Efficiency By Customer Class: MWh per Customer Indexed to 1990 Levels



Source: Goldman Sachs Research estimates, Factset.

## Appendix L: Valuation Methodology and Risks

Company	Ticker	Method	Risks to Our Thesis
<b>Diversified Utilities</b>			
Ameren	AEE	SoP	Lower-than-expected environmental spending on its Illinois coal fleet, worse-than-expected outcome at the next Illinois power auction; Rate case risk
Allegheny Energy	AYE	SoP	LT Commodity prices as non-regulated business contributes bulk of earnings; Higher-than-expected environmental spending at the coal plants
Edison International	EIX	SoP	Environmental capex potentially significant; Commodity risk due to minimal hedging
Entergy	ETR	SoP	LT Commodity prices out non-regulated earnings at risk; Hurricane cost recovery
Exelon	EXC	SoP	LT Commodity prices as company becomes increasingly dependent on nonregulated business; Regulatory risk in Illinois
Sempra Energy	SRE	SoP	Lower-than-expected earnings from trading business; Commodity price risk; SoCal utilities rate case risk
<b>Regulated Utilities</b>			
<b>Large-Cap Regulated Utilities</b>			
American Elec Power	AEP	DDM & P/E	Cost recovery of capital invested in major projects; Greater-than-expected wholesale margins and environmental capex; Above-average debt levels
Duke Energy	DUK	DDM & P/E	Rate case risk at DUK's regulated Franchises Electric business
Consolidated Edison	ED	DDM & P/E	Above-average growth; Equity situations below guidance
PG&E	PCG	DDM & P/E	Delays in rate base growth
Progress Energy	PGN	DDM & P/E	Lower-than-expected rate base growth, regulatory proceedings, greater-than-anticipated financing requirements
<b>Mid and Small-Cap Regulated Utilities</b>			
Cleco	CNL	DDM & P/E	Rate case exposure in Louisiana after Rodemacher completion; worse-than-anticipated cash flows from non-regulated plants
El Paso Electric	EE	DDM & P/E	Operational risk at Palo Verde may lead to less FCF and lower-than-expected equity repurchases
Great Plains Energy	GXP	DDM & P/E	Risks to RoE in KS/MD; Greater-than-expected declines
Northeast Utilities	NJ	DDM & P/E	Regulatory approval of transmission projects, construction risk, and general regulatory and rate case risk
NSTAR	NST	DDM & P/E	Higher-than-expected load growth, success in capturing incentive revenues, lower-than-expected O&M
NV Energy	NVE	DDM & P/E	Lower-than-expected rate base or load growth, long-term rate case risk
Portland General Electric	POR	DDM & P/E	Regulatory risk from the OPUC, long-term rate base growth that varies from our estimates
SCANA Corporation	SCG	DDM & P/E	Rate case risk, lower-than-expected gross margins, customer growth or market share at Scana Energy
Wisconsin Energy	WEC	DDM & P/E	Construction delays; Regulatory environment may become less friendly
Westar Energy	WR	DDM & P/E	Regulatory risk
<b>Special Situation Utilities and IPPs</b>			
NRG Energy	NRG	SoP	Delay/cost increases on planned construction; LT Commodity price risk; Lower-than-expected retail margins
Omat Technologies	ORA	DCF	Elimination or reduction of Production Tax Credits; decreased capacity factors at existing plants; lower long-term commodity prices
RRI Energy	RRI	SoP	Lower L T commodity prices; Higher coal to gas switching; Higher than expected environmental capital spending

Source: Goldman Sachs Research.



## Reg AC

I, Michael Lapedes, hereby certify that all of the views expressed in this report accurately reflect my personal views about the subject company or companies and its or their securities. I also certify that no part of my compensation was, is or will be, directly or indirectly, related to the specific recommendations or views expressed in this report.

## Investment Profile

The Goldman Sachs Investment Profile provides investment context for a security by comparing key attributes of that security to its peer group and market. The four key attributes depicted are: growth, returns, multiple and volatility. Growth, returns and multiple are indexed based on composites of several methodologies to determine the stocks percentile ranking within the region's coverage universe.

The precise calculation of each metric may vary depending on the fiscal year, industry and region but the standard approach is as follows:

**Growth** is a composite of next year's estimate over current year's estimate, e.g. EPS, EBITDA, Revenue. **Return** is a year one prospective aggregate of various return on capital measures, e.g. CROCI, ROACE, and ROE. **Multiple** is a composite of one-year forward valuation ratios, e.g. P/E, dividend yield, EV/FCF, EV/EBITDA, EV/DACF, Price/Book. **Volatility** is measured as trailing twelve-month volatility adjusted for dividends.

## Quantum

Quantum is Goldman Sachs' proprietary database providing access to detailed financial statement histories, forecasts and ratios. It can be used for in-depth analysis of a single company, or to make comparisons between companies in different sectors and markets.

## Disclosures

### Coverage group(s) of stocks by primary analyst(s)

Compendium report: please see disclosures at <http://www.gs.com/research/hedge.html>. Disclosures applicable to the companies included in this compendium can be found in the latest relevant published research.

### Company-specific regulatory disclosures

Compendium report: please see disclosures at <http://www.gs.com/research/hedge.html>. Disclosures applicable to the companies included in this compendium can be found in the latest relevant published research.

### Distribution of ratings/investment banking relationships

Goldman Sachs Investment Research global coverage universe

	Rating Distribution			Investment Banking Relationships		
	Buy	Hold	Sell	Buy	Hold	Sell
Global	30%	51%	19%	54%	52%	44%

As of July 1, 2009, Goldman Sachs Global Investment Research had investment ratings on 2,709 equity securities. Goldman Sachs assigns stocks as Buys and Sells on various regional Investment Lists; stocks not so assigned are deemed Neutral. Such assignments equate to Buy, Hold and Sell for the purposes of the above disclosure required by NASD/NYSE rules. See 'Ratings, Coverage groups and views and related definitions' below.

### Price target and rating history chart(s)

Compendium report: please see disclosures at <http://www.gs.com/research/hedge.html>. Disclosures applicable to the companies included in this compendium can be found in the latest relevant published research.

### Regulatory disclosures

#### Disclosures required by United States laws and regulations

See company-specific regulatory disclosures above for any of the following disclosures required as to companies referred to in this report: manager or co-manager in a pending transaction; 1% or other ownership; compensation for certain services; types of client relationships; managed/co-managed public offerings in prior periods; directorships; for equity securities, market making and/or specialist role. Goldman Sachs usually makes a market in fixed income securities of issuers discussed in this report and usually deals as a principal in these securities.

The following are additional required disclosures: **Ownership and material conflicts of interest:** Goldman Sachs policy prohibits its analysts, professionals reporting to analysts and members of their households from owning securities of any company in the analyst's area of coverage.

**Analyst compensation:** Analysts are paid in part based on the profitability of Goldman Sachs, which includes investment banking revenues. **Analyst as officer or director:** Goldman Sachs policy prohibits its analysts, persons reporting to analysts or members of their households from serving as an officer, director, advisory board member or employee of any company in the analyst's area of coverage. **Non-U.S. Analysts:** Non-U.S. analysts may not be associated persons of Goldman, Sachs & Co. and therefore may not be subject to NASD Rule 2711/NYSE Rules 472 restrictions on communications with subject company, public appearances and trading securities held by the analysts.

**Distribution of ratings:** See the distribution of ratings disclosure above. **Price chart:** See the price chart, with changes of ratings and price targets in prior periods, above, or, if electronic format or if with respect to multiple companies which are the subject of this report, on the Goldman Sachs website at <http://www.gs.com/research/hedge.html>.

### Additional disclosures required under the laws and regulations of jurisdictions other than the United States

The following disclosures are those required by the jurisdiction indicated, except to the extent already made above pursuant to United States laws and regulations. **Australia:** This research, and any access to it, is intended only for "wholesale clients" within the meaning of the Australian Corporations Act. **Canada:** Goldman Sachs Canada Inc. has approved of, and agreed to take responsibility for, this research in Canada if and to the extent it relates to equity securities of Canadian issuers. Analysts may conduct site visits but are prohibited from accepting payment or reimbursement by the company of travel expenses for such visits. **Hong Kong:** Further information on the securities of covered companies referred to in this research may be obtained on request from Goldman Sachs (Asia) L.L.C. **India:** Further information on the subject company or companies referred to in this research may be obtained from Goldman Sachs (India) Securities Private Limited; **Japan:** See below. **Korea:** Further information on the subject company or companies referred to in this research may be obtained from Goldman Sachs (Asia) L.L.C., Seoul Branch. **Russia:** Research reports distributed in the Russian Federation are not advertising as defined in the Russian legislation, but are information and analysis not having product promotion as their main purpose and do not provide appraisal within the meaning of the Russian legislation on appraisal activity. **Singapore:** Further information on the covered companies referred to in this research may be obtained from Goldman Sachs (Singapore) Pte. (Company Number: 198602165W). **Taiwan:** This material is for reference only and must not be reprinted without permission. Investors should carefully consider their own investment risk. Investment results are the responsibility of the individual investor. **United Kingdom:** Persons who would be categorized as retail clients in the United Kingdom, as such term is defined in the rules of the Financial Services Authority, should read this research in conjunction with prior Goldman Sachs research on the covered companies referred to herein and should refer to the risk warnings that have been sent to them by Goldman Sachs International. A copy of these risks warnings, and a glossary of certain financial terms used in this report, are available from Goldman Sachs International on request.

**European Union:** Disclosure information in relation to Article 4 (1) (d) and Article 6 (2) of the European Commission Directive 2003/126/EC is available at [http://www.gs.com/client\\_services/global\\_investment\\_research/europeanpolicy.html](http://www.gs.com/client_services/global_investment_research/europeanpolicy.html) which states the European Policy for Managing Conflicts of Interest in Connection with Investment Research.

**Japan:** Goldman Sachs Japan Co., Ltd. is a Financial Instrument Dealer under the Financial Instrument and Exchange Law, registered with the Kanto Financial Bureau (Registration No. 69), and is a member of Japan Securities Dealers Association (JSDA) and Financial Futures Association of Japan (FFAJ). Sales and purchase of equities are subject to commission pre-determined with clients plus consumption tax. See company-specific disclosures as to any applicable disclosures required by Japanese stock exchanges, the Japanese Securities Dealers Association or the Japanese Securities Finance Company.

### Ratings, coverage groups and views and related definitions

**Buy (B), Neutral (N), Sell (S)** -Analysts recommend stocks as Buys or Sells for inclusion on various regional Investment Lists. Being assigned a Buy or Sell on an Investment List is determined by a stock's return potential relative to its coverage group as described below. Any stock not assigned as a Buy or a Sell on an Investment List is deemed Neutral. Each regional Investment Review Committee manages various regional Investment Lists to a global guideline of 25%-35% of stocks as Buy and 10%-15% of stocks as Sell; however, the distribution of Buys and Sells in any particular coverage group may vary as determined by the regional Investment Review Committee. Regional Conviction Buy and Sell lists represent investment recommendations focused on either the size of the potential return or the likelihood of the realization of the return.

**Return potential** represents the price differential between the current share price and the price target expected during the time horizon associated with the price target. Price targets are required for all covered stocks. The return potential, price target and associated time horizon are stated in each report adding or reiterating an Investment List membership.

**Coverage groups and views:** A list of all stocks in each coverage group is available by primary analyst, stock and coverage group at <http://www.gs.com/research/hedge.html>. The analyst assigns one of the following coverage views which represents the analyst's investment outlook on the coverage group relative to the group's historical fundamentals and/or valuation. **Attractive (A).** The investment outlook over the following 12 months is favorable relative to the coverage group's historical fundamentals and/or valuation. **Neutral (N).** The investment outlook over the following 12 months is neutral relative to the coverage group's historical fundamentals and/or valuation. **Cautious (C).** The investment outlook over the following 12 months is unfavorable relative to the coverage group's historical fundamentals and/or valuation.

**Not Rated (NR).** The investment rating and target price have been removed pursuant to Goldman Sachs policy when Goldman Sachs is acting in an advisory capacity in a merger or strategic transaction involving this company and in certain other circumstances. **Rating Suspended (RS).** Goldman Sachs Research has suspended the investment rating and price target for this stock, because there is not a sufficient fundamental basis for determining an investment rating or target. The previous investment rating and price target, if any, are no longer in effect for this stock and should not be relied upon. **Coverage Suspended (CS).** Goldman Sachs has suspended coverage of this company. **Not Covered (NC).** Goldman Sachs does not cover this company. **Not Available or Not Applicable (NA).** The information is not available for display or is not applicable. **Not Meaningful (NM).** The information is not meaningful and is therefore excluded.

### Global product; distributing entities

The Global Investment Research Division of Goldman Sachs produces and distributes research products for clients of Goldman Sachs, and pursuant to certain contractual arrangements, on a global basis. Analysts based in Goldman Sachs offices around the world produce equity research on industries and companies, and research on macroeconomics, currencies, commodities and portfolio strategy. This research is disseminated in Australia by Goldman Sachs JBWere Pty Ltd (ABN 21 006 797 897) on behalf of Goldman Sachs; in Canada by Goldman Sachs Canada Inc. regarding Canadian equities and by Goldman Sachs & Co. (all other research); in Hong Kong by Goldman Sachs (Asia) L.L.C.; in India by Goldman Sachs (India) Securities Private Ltd.; in Japan by Goldman Sachs Japan Co., Ltd.; in the Republic of Korea by Goldman Sachs (Asia) L.L.C., Seoul Branch; in

New Zealand by Goldman Sachs JBWere (NZ) Limited on behalf of Goldman Sachs; in Russia by OOO Goldman Sachs; in Singapore by Goldman Sachs (Singapore) Pte. (Company Number: 198602165W); and in the United States of America by Goldman, Sachs & Co. Goldman Sachs International has approved this research in connection with its distribution in the United Kingdom and European Union.

**European Union:** Goldman Sachs International, authorized and regulated by the Financial Services Authority, has approved this research in connection with its distribution in the European Union and United Kingdom; Goldman, Sachs & Co. oHG, regulated by the Bundesanstalt für Finanzdienstleistungsaufsicht, may also distribute research in Germany.

### General disclosures

This research is for our clients only. Other than disclosures relating to Goldman Sachs, this research is based on current public information that we consider reliable, but we do not represent it is accurate or complete, and it should not be relied on as such. We seek to update our research as appropriate, but various regulations may prevent us from doing so. Other than certain industry reports published on a periodic basis, the large majority of reports are published at irregular intervals as appropriate in the analyst's judgment.

Goldman Sachs conducts a global full-service, integrated investment banking, investment management, and brokerage business. We have investment banking and other business relationships with a substantial percentage of the companies covered by our Global Investment Research Division. **SIPC:** Goldman, Sachs & Co., the United States broker dealer, is a member of SIPC (<http://www.sipc.org>).

Our salespeople, traders, and other professionals may provide oral or written market commentary or trading strategies to our clients and our proprietary trading desks that reflect opinions that are contrary to the opinions expressed in this research. Our asset management area, our proprietary trading desks and investing businesses may make investment decisions that are inconsistent with the recommendations or views expressed in this research.

We and our affiliates, officers, directors, and employees, excluding equity and credit analysts, will from time to time have long or short positions in, act as principal in, and buy or sell, the securities or derivatives, if any, referred to in this research.

This research is not an offer to sell or the solicitation of an offer to buy any security in any jurisdiction where such an offer or solicitation would be illegal. It does not constitute a personal recommendation or take into account the particular investment objectives, financial situations, or needs of individual clients. Clients should consider whether any advice or recommendation in this research is suitable for their particular circumstances and, if appropriate, seek professional advice, including tax advice. The price and value of investments referred to in this research and the income from them may fluctuate. Past performance is not a guide to future performance, future returns are not guaranteed, and a loss of original capital may occur. Fluctuations in exchange rates could have adverse effects on the value or price of, or income derived from, certain investments.

Certain transactions, including those involving futures, options, and other derivatives, give rise to substantial risk and are not suitable for all investors. Investors should review current options disclosure documents which are available from Goldman Sachs sales representatives or at <http://www.theocc.com/publications/risks/riskchap1.jsp>. Transactions cost may be significant in option strategies calling for multiple purchase and sales of options such as spreads. Supporting documentation will be supplied upon request.

Our research is disseminated primarily electronically, and, in some cases, in printed form. Electronic research is simultaneously available to all clients.

Disclosure information is also available at <http://www.gs.com/research/hedge.html> or from Research Compliance, One New York Plaza, New York, NY 10004.

**Copyright 2009 The Goldman Sachs Group, Inc.**

**No part of this material may be (i) copied, photocopied or duplicated in any form by any means or (ii) redistributed without the prior written consent of The Goldman Sachs Group, Inc.**

# REGULATORY FOCUS

January 7, 2011  
(Revised February 1, 2011)

## MAJOR RATE CASE DECISIONS--CALENDAR 2010

The average return on equity (ROE) authorized electric utilities in 2010 approximated 10.3% compared to 10.5% in 2009. There were 59 electric ROE determinations in 2010, up substantially from 39 in 2009. The average ROE authorized gas utilities approximated 10.1% in 2010, compared to 10.2% in 2009. There were 37 gas cases that included an ROE determination in 2010, and 29 in 2009. Not included in these averages is a Sept. 16, 2010, New York Public Service Commission decision authorizing Consolidated Edison of New York's steam operations a 9.6% ROE. We note that this report utilizes the simple mean for the return averages.

After reaching a low in the early-2000's, the number of rate case decisions for energy companies has generally increased over the last several years. There were 126 electric and gas rate decisions in 2010, versus 95 in 2009, and only 32 back in 2001. Increased costs, including environmental compliance expenditures, the need for generation and delivery infrastructure upgrades and expansion, renewable generation mandates, and higher employee benefit costs argue for a continuation of the increased level of rate case activity over the next few years.

We note that electric industry restructuring in certain states has led to the unbundling of rates and retail competition for generation. Commissions in those states are now authorizing revenue requirement and return parameters for delivery operations only (which we footnote in our chronology beginning on page 5), thus complicating historical data comparability. We also note that while the heightened business risk associated with the sluggish economy may have increased corporate capital costs, higher average authorized ROEs did not materialize in 2010 or in 2009. In fact, average authorized ROEs have declined slightly over the last two years, and some state commissions have cited customer hardship as a significant factor influencing their equity return authorizations.

The table on page 2 shows the average ROE authorized in major electric and gas rate decisions annually since 1990, and by quarter since 2004, followed by the number of observations in each period. The tables on page 3 show the composite electric and gas industry data for all major cases summarized annually since 1997 and by quarter for the past eight quarters. The individual electric and gas cases decided in 2010 are listed on pages 5-9, with the decision date (generally the date on which the final order was issued) shown first, followed by the company name, the abbreviation for the state issuing the decision, the authorized rate of return (ROR), return on equity (ROE), and percentage of common equity in the adopted capital structure. Next we show the month and year in which the adopted test year ended, whether the commission utilized an average or a year-end rate base, and the amount of the permanent rate change authorized. The dollar amounts represent the permanent rate change ordered at the time decisions were rendered. Fuel adjustment clause rate changes are not reflected in this study. We note that the cases and averages included in this study may be slightly different from those in our online rate case history database, with any differences likely the result of this study's inclusion of ROE determinations that are rendered in cost-of-capital-only proceedings in California.

(Text continued on page 4.)

Average Equity Returns Authorized January 1990 - December 2010

Year	Period	Electric Utilities		Gas Utilities	
		ROE %	(# Cases)	ROE %	(# Cases)
1990	Full Year	12.70	(44)	12.67	(31)
1991	Full Year	12.55	(45)	12.46	(35)
1992	Full Year	12.09	(48)	12.01	(29)
1993	Full Year	11.41	(32)	11.35	(45)
1994	Full Year	11.34	(31)	11.35	(28)
1995	Full Year	11.55	(33)	11.43	(16)
1996	Full Year	11.39	(22)	11.19	(20)
1997	Full Year	11.40	(11)	11.29	(13)
1998	Full Year	11.66	(10)	11.51	(10)
1999	Full Year	10.77	(20)	10.66	(9)
2000	Full Year	11.43	(12)	11.39	(12)
2001	Full Year	11.09	(18)	10.95	(7)
2002	Full Year	11.16	(22)	11.03	(21)
2003	Full Year	10.97	(22)	10.99	(25)
	1st Quarter	11.00	(3)	11.10	(4)
	2nd Quarter	10.54	(6)	10.25	(2)
	3rd Quarter	10.33	(2)	10.37	(8)
	4th Quarter	10.91	(8)	10.66	(6)
2004	Full Year	10.75	(19)	10.59	(20)
	1st Quarter	10.51	(7)	10.65	(2)
	2nd Quarter	10.05	(7)	10.54	(5)
	3rd Quarter	10.84	(4)	10.47	(5)
	4th Quarter	10.75	(11)	10.40	(14)
2005	Full Year	10.54	(29)	10.46	(26)
	1st Quarter	10.38	(3)	10.63	(6)
	2nd Quarter	10.68	(6)	10.50	(2)
	3rd Quarter	10.06	(7)	10.45	(3)
	4th Quarter	10.39	(10)	10.14	(5)
2006	Full Year	10.36	(26)	10.43	(16)
	1st Quarter	10.27	(8)	10.44	(10)
	2nd Quarter	10.27	(11)	10.12	(4)
	3rd Quarter	10.02	(4)	10.03	(8)
	4th Quarter	10.56	(16)	10.27	(15)
2007	Full Year	10.36	(39)	10.24	(37)
	1st Quarter	10.45	(10)	10.38	(7)
	2nd Quarter	10.57	(8)	10.17	(3)
	3rd Quarter	10.47	(11)	10.49	(7)
	4th Quarter	10.33	(8)	10.34	(13)
2008	Full Year	10.46	(37)	10.37	(30)
	1st Quarter	10.29	(9)	10.24	(4)
	2nd Quarter	10.55	(10)	10.11	(8)
	3rd Quarter	10.46	(3)	9.88	(2)
	4th Quarter	10.54	(17)	10.27	(15)
2009	Full Year	10.48	(39)	10.19	(29)
	1st Quarter	10.66	(17)	10.24	(9)
	2nd Quarter	10.08	(14)	9.99	(11)
	3rd Quarter	10.26	(11)	9.93	(4)
	4th Quarter	10.30	(17)	10.09	(12)
2010	Full Year	10.34	(59)	10.08	(37)

**Electric Utilities--Summary Table\***

	<u>Period</u>	<u>ROR % (# Cases)</u>		<u>ROE % (# Cases)</u>		<u>Eq. as % Cap. Struct. (# Cases)</u>		<u>Amt. \$ Mil. (# Cases)</u>	
1997	Full Year	9.16	(12)	11.40	(11)	48.79	(11)	-553.3	(33)
1998	Full Year	9.44	(9)	11.66	(10)	46.14	(8)	-429.3	(31)
1999	Full Year	8.81	(18)	10.77	(20)	45.08	(17)	-1,683.8	(30)
2000	Full Year	9.20	(12)	11.43	(12)	48.85	(12)	-291.4	(34)
2001	Full Year	8.93	(15)	11.09	(18)	47.20	(13)	14.2	(21)
2002	Full Year	8.72	(20)	11.16	(22)	46.27	(19)	-475.4	(24)
2003	Full Year	8.86	(20)	10.97	(22)	49.41	(19)	313.8	(12)
2004	Full Year	8.44	(18)	10.75	(19)	46.84	(17)	1,091.5	(30)
2005	Full Year	8.30	(26)	10.54	(29)	46.73	(27)	1,373.7	(36)
2006	Full Year	8.24	(24)	10.36	(26)	48.67	(23)	1,465.0	(42)
2007	Full Year	8.22	(38)	10.36	(39)	48.01	(37)	1,401.9	(46)
2008	Full Year	8.25	(35)	10.46	(37)	48.41	(33)	2,899.4	(42)
	1st Quarter	8.19	(8)	10.29	(9)	48.52	(8)	857.0	(14)
	2nd Quarter	8.05	(9)	10.55	(10)	47.66	(9)	1,425.0	(17)
	3rd Quarter	8.48	(3)	10.46	(3)	47.20	(3)	317.1	(7)
	4th Quarter	8.30	(18)	10.54	(17)	49.41	(17)	1,593.2	(20)
2009	Full Year	8.23	(38)	10.48	(39)	48.61	(37)	4,192.3	(58)
	1st Quarter	7.95	(17)	10.66	(17)	48.36	(16)	2,010.0	(19)
	2nd Quarter	7.95	(15)	10.08	(14)	47.07	(13)	937.5	(19)
	3rd Quarter	8.16	(12)	10.26	(11)	49.52	(11)	730.6	(18)
	4th Quarter	7.95	(15)	10.30	(17)	49.00	(14)	1,889.6	(21)
<b>2010</b>	<b>Full Year</b>	<b>7.99</b>	<b>(59)</b>	<b>10.34</b>	<b>(59)</b>	<b>48.45</b>	<b>(54)</b>	<b>5,567.7</b>	<b>(77)</b>

**Gas Utilities--Summary Table\***

	<u>Period</u>	<u>ROR % (# Cases)</u>		<u>ROE % (# Cases)</u>		<u>Eq. as % Cap. Struct. (# Cases)</u>		<u>Amt. \$ Mil. (# Cases)</u>	
1997	Full Year	9.13	(13)	11.29	(13)	47.78	(11)	-82.5	(21)
1998	Full Year	9.46	(10)	11.51	(10)	49.50	(10)	93.9	(20)
1999	Full Year	8.86	(9)	10.66	(9)	49.06	(9)	51.0	(14)
2000	Full Year	9.33	(13)	11.39	(12)	48.59	(12)	135.9	(20)
2001	Full Year	8.51	(6)	10.95	(7)	43.96	(5)	114.0	(11)
2002	Full Year	8.80	(20)	11.03	(21)	48.29	(18)	303.6	(26)
2003	Full Year	8.75	(22)	10.99	(25)	49.93	(22)	260.1	(30)
2004	Full Year	8.34	(21)	10.59	(20)	45.90	(20)	303.5	(31)
2005	Full Year	8.25	(29)	10.46	(26)	48.66	(24)	458.4	(34)
2006	Full Year	8.51	(16)	10.43	(16)	47.43	(16)	444.0	(25)
2007	Full Year	8.12	(32)	10.24	(37)	48.37	(30)	813.4	(48)
2008	Full Year	8.48	(30)	10.37	(30)	50.47	(30)	884.8	(41)
	1st Quarter	8.11	(5)	10.24	(4)	44.97	(4)	167.6	(7)
	2nd Quarter	8.05	(7)	10.11	(8)	48.84	(7)	92.5	(8)
	3rd Quarter	8.30	(2)	9.88	(2)	51.00	(2)	19.2	(4)
	4th Quarter	8.19	(14)	10.27	(15)	49.35	(15)	195.7	(18)
2009	Full Year	8.15	(28)	10.19	(29)	48.72	(28)	475.0	(37)
	1st Quarter	8.20	(10)	10.24	(9)	50.27	(9)	177.3	(11)
	2nd Quarter	7.80	(11)	9.99	(11)	46.31	(11)	230.2	(12)
	3rd Quarter	8.13	(4)	9.93	(4)	49.00	(4)	290.5	(10)
	4th Quarter	7.84	(13)	10.09	(13)	49.11	(14)	118.7	(16)
<b>2010</b>	<b>Full Year</b>	<b>7.95</b>	<b>(38)</b>	<b>10.08</b>	<b>(37)</b>	<b>48.56</b>	<b>(38)</b>	<b>816.7</b>	<b>(49)</b>

\* Number of observations in each period indicated in parentheses.

The table below tracks the average equity return authorized for all electric and gas rate cases combined, by year, for the last 21 years. As the table reveals, since 1990 the authorized ROEs have generally trended downward, reflecting the significant decline in interest rates that has occurred over this time frame. The combined average equity returns authorized for electric and gas utilities in each of the years 1990 through 2010, and the number of observations for each year are as follows:

1990	12.69%	(75)	2000	11.41%	(24)
1991	12.51	(80)	2001	11.05	(25)
1992	12.06	(77)	2002	11.10	(43)
1993	11.37	(77)	2003	10.98	(47)
1994	11.34	(59)	2004	10.67	(39)
1995	11.51	(49)	2005	10.50	(55)
1996	11.29	(42)	2006	10.39	(42)
1997	11.34	(24)	2007	10.30	(76)
1998	11.59	(20)	2008	10.42	(67)
1999	10.74	(29)	2009	10.36	(68)
			2010	10.24	(96)

Dennis Spurduto

©2011, Regulatory Research Associates, Inc. All Rights Reserved. Confidential Subject Matter. WARNING! This report contains copyrighted subject matter and confidential information owned solely by Regulatory Research Associates, Inc. ("RRA"). Reproduction, distribution or use of this report in violation of this license constitutes copyright infringement in violation of federal and state law. RRA hereby provides consent to use the "email this story" feature to redistribute articles within the subscriber's company. Although the information in this report has been obtained from sources that RRA believes to be reliable, RRA does not guarantee its accuracy.

## ELECTRIC UTILITY DECISIONS

<u>Date</u>	<u>Company (State)</u>	<u>ROR</u> <u>%</u>	<u>ROE</u> <u>%</u>	<u>Common</u> <u>Eq. as %</u> <u>Cap. Str.</u>	<u>Test Year</u> <u>&amp;</u> <u>Rate Base</u>	<u>Amt.</u> <u>\$ Mil.</u>
1/11/10	Detroit Edison (MI)	7.02	11.00	39.48 *	6/10-A	217.4 (I)
1/12/10	Northern States Power (SD)	8.32	---	---	---	10.9 (B)
1/19/10	Interstate Power & Light (IA)	8.91	10.80	49.52	12/08-A	83.7 (I)
1/22/10	Portland General Electric (OR)	---	---	---	---	9.8 (B)
1/26/10	PacifiCorp (OR)	8.08	10.13	51.00	12/10-A	41.5 (B)
1/27/10	Westar Energy (KS)	8.49	10.40	50.13	---	8.5 (B)
1/27/10	Kansas Gas & Elec. (KS)	8.49	10.40	50.13	---	8.5 (B)
1/27/10	Duke Energy Carolinas (SC)	8.41	10.70 (1)	53.00	12/08-YE	74.1 (B)
2/9/10	Narragansett Electric (RI)	7.20	9.80	42.75 (Hy)	12/08-A	23.5 (D)
2/18/10	PacifiCorp (UT)	8.34	10.60	51.00	6/10-A	32.4
2/24/10	Idaho Power (OR)	8.06	10.18	49.80	12/09	5.0 (B)
3/2/10	Potomac Electric Power (DC)	8.01	9.63	46.18	12/08-A	19.8 (D)
3/4/10	Kentucky Utilities (VA)	7.85	10.50	53.62	12/08-A	10.6 (I,B)
3/5/10	Florida Power (FL)	7.88	10.50	46.76 *	12/10-A	126.2 (I,2)
3/11/10	Virginia Electric and Power (VA)	---	11.90 (3)	---	12/08	0.0 (I,B)
3/11/10	Virginia Electric and Power (VA)	7.81 (E)	12.30 (4)	47.71	---	71.0 (I,B,4)
3/11/10	Virginia Electric and Power (VA)	7.81 (E)	12.30 (5)	47.71	---	64.0 (I,B,5)
3/17/10	Florida Power & Light (FL)	6.65	10.00	47.00 *	12/10-A	75.5
3/26/10	Consolidated Edison of New York (NY)	7.76	10.15	48.00	3/11-A	1,127.6 (D,B,Z)
<b>2010</b>	<b>1ST QUARTER: AVERAGES/TOTAL</b>	<b>7.95</b>	<b>10.66</b>	<b>48.36</b>		<b>2,010.0</b>
	<b>MEDIAN</b>	<b>8.01</b>	<b>10.50</b>	<b>48.76</b>		<b>---</b>
	<b>OBSERVATIONS</b>	<b>17</b>	<b>17</b>	<b>16</b>		<b>19</b>
4/2/10	Puget Sound Energy (WA)	8.10	10.10	46.00 (Hy)	12/08-A	74.1 (R)
4/16/10	Southwestern Electric Power (TX)	---	---	---	3/09	25.0 (B)
4/29/10	Central Illinois Light (IL)	8.05	9.90	43.61	12/08-YE	4.9 (D,R)
4/29/10	Central Illinois Public Service (IL)	8.02	10.06	48.67	12/08-YE	23.7 (D,R)
4/29/10	Illinois Power (IL)	8.97	10.26	43.55	12/08-YE	28.2 (D,R)
5/12/10	Atlantic City Electric (NJ)	8.69	10.30	49.10	12/09-YE	20.0 (D,B)
5/12/10	Rockland Electric (NJ)	8.21	10.30	49.85	12/09-YE	9.8 (D,B)
5/14/10	PacifiCorp (WY)	8.33	---	---	---	35.5 (B,Z)
5/26/10	MDU Resources (WY)	8.25	10.00	49.77	12/08-YE	2.7
5/28/10	Union Electric (MO)	8.06	10.10	51.26	3/09-YE	229.6
6/7/10	Public Service Electric & Gas (NJ)	8.21	10.30	51.20	12/09-YE	73.5 (D,B)
6/15/10	PacifiCorp (UT)	---	---	---	---	30.8 (B,6)
6/18/10	Central Hudson Gas & Electric (NY)	7.43	10.00	48.00	6/11-A	30.2 (D,B,Z)
6/23/10	Entergy Arkansas (AR)	5.04	10.20	29.32 *	6/09-YE	63.7 (B,R)
6/23/10	Empire District Electric (KS)	---	---	---	---	2.8 (B)
6/25/10	Monongahela Power/Potomac Ed. (WV)	8.71	---	---	12/08-A	60.0 (B,Z)
6/28/10	Kentucky Power (KY)	---	10.50	---	9/09-YE	63.7 (B)
6/28/10	Public Service of New Hampshire (NH)	7.51	9.67	52.40	---	57.4 (D,I,B)
6/30/10	Connecticut Light & Power (CT)	7.68	9.40	49.20	6/09-DC	101.9 (D,Z)
<b>2010</b>	<b>2ND QUARTER: AVERAGES/TOTAL</b>	<b>7.95</b>	<b>10.08</b>	<b>47.07</b>		<b>937.5</b>
	<b>MEDIAN</b>	<b>8.10</b>	<b>10.10</b>	<b>49.10</b>		<b>---</b>
	<b>OBSERVATIONS</b>	<b>15</b>	<b>14</b>	<b>13</b>		<b>19</b>



## ELECTRIC UTILITY DECISIONS (continued)

7/1/10	Wisconsin Electric Power (MI)	6.99	10.25	47.61 *	12/10-A	23.5 (I)
7/15/10	South Carolina Electric & Gas (SC)	8.56	10.70	52.96	9/09-YE	101.2 (B,Z)
7/15/10	Appalachian Power (VA)	7.85	10.53	41.53	12/08-YE	61.5
7/30/10	Maui Electric (HI)	8.67	10.70	54.89	12/07-A	13.2 (B,I)
7/30/10	Kentucky Utilities (KY)	---	---	---	10/09-YE	98.0 (B)
7/30/10	Louisville Gas & Electric (KY)	---	---	---	10/09-YE	74.0 (B)
7/30/10	El Paso Electric (TX)	---	---	---	6/09	17.2 (B,7)
8/4/10	Black Hills Colorado Electric Utility (CO)	9.32	10.50	52.00	7/09	17.9 (B)
8/6/10	Potomac Electric Power (MD)	8.18	9.83	48.87	12/09-A	7.8
8/11/10	Black Hills Power (SD)	8.26	---	---	6/09-A	22.0 (B,I)
8/18/10	Empire District Electric (MO)	---	---	---	6/09-YE	46.8 (B)
8/25/10	Northern Indiana Public Service (IN)	7.29	9.90	49.95 *	12/07-YE	-48.9
9/14/10	Hawaiian Electric (HI)	8.62	10.70	55.10	12/07-A	77.5 (B,I)
9/16/10	New York State Electric & Gas (NY)	7.48	10.00	48.00	8/11-A	88.7 (D,B,Z,8)
9/16/10	Rochester Gas and Electric (NY)	8.47	10.00	48.00	8/11-A	54.2 (D,B,Z,8)
9/21/10	Avista Corp. (ID)	---	---	---	12/09	21.3 (B)
9/30/10	UNS Electric (AZ)	8.28	9.75	45.76	12/08-YE	7.4
9/30/10	South Carolina Electric & Gas (SC)	---	---	---	---	47.3 (9)
<b>2010</b>	<b>3RD QUARTER: AVERAGES/TOTAL</b>	<b>8.16</b>	<b>10.26</b>	<b>49.52</b>		<b>730.6</b>
	<b>MEDIAN</b>	<b>8.27</b>	<b>10.25</b>	<b>48.87</b>		<b>---</b>
	<b>OBSERVATIONS</b>	<b>12</b>	<b>11</b>	<b>11</b>		<b>18</b>
10/14/10	Indiana Michigan Power (MI)	7.53	10.35	44.14 *	12/10-A	35.7 (B,I)
10/28/10	Hawaii Electric Light (HI)	8.33	10.70	51.19	12/06-A	24.6 (B,I)
11/2/10	Minnesota Power (MN)	8.18	10.38	54.29	12/10-A	67.5 (I)
11/4/10	Consumers Energy (MI)	6.98	10.70	41.59 *	6/11-A	145.7 (I)
11/19/10	Avista Corp. (WA)	7.91	10.20	46.50	12/09-A	29.5 (B)
11/22/10	Kansas City Power & Light (KS)	8.37	10.00	49.66	9/09-YE	21.8
12/1/10	Entergy Texas (TX)	8.52	10.13	---	6/09	68.0 (B,I,Z)
12/6/10	Baltimore Gas & Electric (MD)	8.06	9.86	51.93	7/10-A	31.0
12/9/10	NorthWestern Corp. (MT)	7.80	10.00	48.00	12/08-A	6.5 (D,B,I,E)
12/15/10	Interstate Power & Light (IA)	---	10.00	---	12/09-A	114.5 (I,10)
12/13/10	Dominion North Carolina Power (NC)	8.22	10.70	51.00	12/08-YE	3.1 (B)
12/14/10	PacifiCorp (OR)	8.08	10.13	51.00	12/11-A	84.6 (B)
12/17/10	Portland General Electric (OR)	8.03	10.00	50.00	12/11-A	100.2 (B)
12/20/10	Sierra Pacific Power (NV)	8.06	10.60	44.11	12/09-YE	13.1
12/21/10	Upper Peninsula Power (MI)	7.12	10.30	50.42 *	---	8.9 (B)
12/21/10	PECO Energy (PA)	---	---	---	12/10	225.0 (D,B)
12/21/10	PPL Electric Utilities (PA)	---	---	---	12/10	77.5 (D,B)
12/21/10	PacifiCorp (UT)	---	---	---	---	33.3 (B,11)
12/27/10	PacifiCorp (ID)	7.98	9.90	52.10	12/09-A	13.8
12/29/10	Georgia Power (GA)	---	11.15	---	---	562.3 (B)
12/30/10	Georgia Power (GA)	---	---	---	12/11	223.0 (12)
<b>2010</b>	<b>4TH QUARTER: AVERAGES/TOTAL</b>	<b>7.95</b>	<b>10.30</b>	<b>49.00</b>		<b>1,889.6</b>
	<b>MEDIAN</b>	<b>8.06</b>	<b>10.20</b>	<b>50.21</b>		<b>---</b>
	<b>OBSERVATIONS</b>	<b>15</b>	<b>17</b>	<b>14</b>		<b>21</b>
<b>2010</b>	<b>FULL YEAR: AVERAGES/TOTAL</b>	<b>7.99</b>	<b>10.34</b>	<b>48.45</b>		<b>5,567.7</b>
	<b>MEDIAN</b>	<b>8.06</b>	<b>10.25</b>	<b>49.36</b>		<b>---</b>
	<b>OBSERVATIONS</b>	<b>59</b>	<b>59</b>	<b>54</b>		<b>77</b>

## GAS UTILITY DECISIONS

<u>Date</u>	<u>Company (State)</u>	<u>ROR</u> <u>%</u>	<u>ROE</u> <u>%</u>	<u>Common</u> <u>Eq. as %</u> <u>Cap. Str.</u>	<u>Test Year</u> <u>&amp;</u> <u>Rate Base</u>	<u>Amt.</u> <u>\$ Mil.</u>
1/11/10	CenterPoint Energy Resources (MN)	8.09	10.24	52.55	12/09-A	40.8 (I)
1/20/10	Empire District Gas (MO)	---	---	---	---	2.6 (B)
1/21/10	Peoples Gas Light & Coke (IL)	8.05	10.23	56.00	12/10-A	69.8
1/21/10	North Shore Gas (IL)	8.19	10.33	56.00	12/10-A	13.9
1/26/10	Atmos Energy (TX)	8.60	10.40	48.91	6/08-YE	2.7 (E)
2/10/10	Southern Union (MO)	7.72	10.00	38.66	12/08-YE	16.2 (Bp)
2/23/10	CenterPoint Energy Resources (TX)	8.65	10.50	55.60	3/09-YE	5.1
3/9/10	SourceGas Distribution (NE)	7.80	9.60	49.96	12/08-YE	1.6 (I)
3/19/10	Mountaineer Gas (WV)	8.72	---	---	12/08-A	19.0 (B)
3/24/10	MidAmerican Energy (IL)	7.60	10.13	47.08	12/08-YE	2.7
3/31/10	Atmos Energy (GA)	8.61	10.70	47.70	10/10-A	2.9
<b>2010</b>	<b>1ST QUARTER: AVERAGES/TOTAL</b>	<b>8.20</b>	<b>10.24</b>	<b>50.27</b>		<b>177.3</b>
	<b>MEDIAN</b>	<b>8.14</b>	<b>10.24</b>	<b>49.96</b>		<b>---</b>
	<b>OBSERVATIONS</b>	<b>10</b>	<b>9</b>	<b>9</b>		<b>11</b>
4/2/10	Puget Sound Energy (WA)	8.10	10.10	46.00 (Hy)	12/08-A	10.1 (R)
4/14/10	UNS Gas (AZ)	8.00	9.50	49.90	6/08-YE	3.5
4/29/10	Central Illinois Light (IL)	7.83	9.40	43.61	12/08-YE	-5.7 (R)
4/29/10	Central Illinois Public Service (IL)	7.59	9.19	48.67	12/08-YE	0.3 (R)
4/29/10	Illinois Power (IL)	8.59	9.40	43.55	12/08-YE	-7.4 (R)
5/17/10	Consumers Energy (MI)	7.02	10.55	40.78 *	9/10-A	65.9 (I)
5/24/10	Chattanooga Gas (TN)	7.41	10.05	46.06	4/11-A	0.1
5/28/10	Atmos Energy (KY)	---	---	---	---	6.1 (B)
6/3/10	Michigan Consolidated Gas (MI)	7.19	11.00	38.78 *	12/10-A	118.6 (I)
6/3/10	Questar Gas (UT)	8.42	10.35	52.91	12/10-A	2.6 (B,13)
6/18/10	Public Service Electric & Gas (NJ)	8.21	10.30	51.20	12/09-YE	26.5 (B)
6/18/10	Central Hudson Gas & Electric (NY)	7.43	10.00	48.00	6/11-A	9.6 (B,Z)
<b>2010</b>	<b>2ND QUARTER: AVERAGES/TOTAL</b>	<b>7.80</b>	<b>9.99</b>	<b>46.31</b>		<b>230.2</b>
	<b>MEDIAN</b>	<b>7.83</b>	<b>10.05</b>	<b>46.06</b>		<b>---</b>
	<b>OBSERVATIONS</b>	<b>11</b>	<b>11</b>	<b>11</b>		<b>12</b>

## GAS UTILITY DECISIONS (continued)

7/30/10	Atmos Energy (KS)	---	---	---	---	3.9 (B)
7/30/10	Louisville Gas & Electric (KY)	---	---	---	10/09-YE	17.0 (B)
8/17/10	Black Hills Nebraska Gas Utility (NE)	9.11	10.10	52.00	7/09-YE	8.3 (R,I)
8/18/10	Atmos Energy (MO)	---	---	---	---	5.7 (B)
8/18/10	Laclede Gas (MO)	---	---	---	---	31.4 (B)
8/18/10	Columbia Gas of Pennsylvania (PA)	---	---	---	9/09	12.0 (B)
9/16/10	New York State Electric & Gas (NY)	7.48	10.00	48.00	8/11-A	34.0 (B,Z,8)
9/16/10	Rochester Gas and Electric (NY)	8.47	10.00	48.00	8/11-A	34.6 (B,Z,8)
9/21/10	Avista Corp. (ID)	---	---	---	12/09	1.9 (B)
9/22/10	Consolidated Edison of New York (NY)	7.46	9.60	48.00	9/11-A	141.7 (B,Z)
<b>2010</b>	<b>3RD QUARTER: AVERAGES/TOTAL</b>	<b>8.13</b>	<b>9.93</b>	<b>49.00</b>		<b>290.5</b>
	<b>MEDIAN</b>	<b>7.98</b>	<b>10.00</b>	<b>48.00</b>		<b>---</b>
	<b>OBSERVATIONS</b>	<b>4</b>	<b>4</b>	<b>4</b>		<b>10</b>
10/6/10	South Carolina Electric & Gas (SC)	---	---	---	3/10	-10.4 (M)
10/21/10	Delta Natural Gas (KY)	7.97	10.40	44.49	12/09-YE	3.5 (R)
11/2/10	Boston Gas (MA) (14)	7.91	9.75	50.00 (Hy)	12/09-YE	41.5
11/2/10	Colonial Gas (MA)	8.16	9.75	50.00 (Hy)	12/09-YE	16.5
11/3/10	Atlanta Gas Light (GA)	8.10	10.75	51.00	5/11-A	26.6
11/4/10	Northern Indiana Public Service (IN)	---	---	46.29 *	12/09-YE	-14.8 (B)
11/19/10	Avista Corp. (WA)	7.91	10.20	46.50	12/09-A	4.6 (B)
12/1/10	SourceGas Distribution (CO)	8.02	10.00	50.48	12/09-A	2.8 (B)
12/6/10	Nothern States Power-Minnesota (MN)	8.28	10.09	52.46	12/10-A	7.3 (I)
12/6/10	Baltimore Gas & Electric (MD)	7.90	9.56	51.93	7/10-A	9.8
12/9/10	NorthWestern Corp. (MT)	7.92	10.25	48.00	12/08-A	-1.0 (B,I)
12/14/10	Texas Gas Service (TX)	8.65	10.33	59.24	6/09-YE	0.8
12/17/10	Columbia Gas of Virginia (VA)	7.92	10.10	42.70	12/09	4.9 (B)
12/20/10	Sierra Pacific Power (NV)	5.18	10.05	44.11	12/09-YE	2.7
12/23/10	SourceGas Distribution (WY)	7.98	9.92	50.34	8/09-YE	4.3
12/29/10	PECO Energy (PA)	---	---	---	12/10	19.6 (B)
<b>2010</b>	<b>4TH QUARTER: AVERAGES/TOTAL</b>	<b>7.84</b>	<b>10.09</b>	<b>49.11</b>		<b>118.7</b>
	<b>MEDIAN</b>	<b>7.97</b>	<b>10.09</b>	<b>50.00</b>		<b>---</b>
	<b>OBSERVATIONS</b>	<b>13</b>	<b>13</b>	<b>14</b>		<b>16</b>
<b>2010</b>	<b>FULL YEAR: AVERAGES/TOTAL</b>	<b>7.95</b>	<b>10.08</b>	<b>48.56</b>		<b>816.7</b>
	<b>MEDIAN</b>	<b>7.99</b>	<b>10.10</b>	<b>48.34</b>		<b>---</b>
	<b>OBSERVATIONS</b>	<b>38</b>	<b>37</b>	<b>38</b>		<b>49</b>

**FOOTNOTES**

- A- Average
- B- Order followed stipulation or settlement by the parties. Decision particulars not necessarily precedent-setting or specifically adopted by the regulatory body.
- Bp- Order followed partial stipulation or settlement by the parties. Decision particulars not necessarily precedent-setting or specifically adopted by the regulatory body.
- CWIP- Construction work in progress
- D- Applies to electric delivery only
- DC- Date certain
- E- Estimated
- Hy- Hypothetical capital structure
- I- Interim rates implemented prior to the issuance of final order, normally under bond and subject to refund.
- M- "Make-whole" rate change based on return on equity or overall return authorized in previous case.
- R- Revised
- YE- Year-end
- Z- Rate change implemented in multiple steps.
- \* Capital structure includes cost-free items or tax credit balances at the overall rate of return.

- (1) While the authorized rate increase is based on a 10.7% ROE, the settlement specifies that the company is permitted to earn up to an 11% ROE.
- (2) The permanent rate increase includes a \$126.2 million increase that was authorized by the PSC on 5/19/09 in a separate proceeding related to the repowering of the Bartow generating plant. The company had also requested recovery of the Bartow repowering costs in this base rate proceeding. In addition, the \$126.2 million Bartow-related increase, when adjusted for 2010 billing determinants, increases to \$132.1 million.
- (3) Authorized 11.9% ROE includes an 11.3% base ROE and a 60-basis-point management efficiency premium.
- (4) Parameters apply to rider for the Virginia City Hybrid Energy Center, and the specified ROE includes an 11.3% base equity return and a 100-basis-point premium.
- (5) Parameters apply to rider for the Bear Garden generation facility, and the specified ROE includes an 11.3% base equity return and a 100-basis-point premium.
- (6) Case is a limited-issue proceeding involving PacifiCorp's incremental investment in a transmission line and an environmental upgrade project.
- (7) The rate increase is effective retroactive to 7/1/10.
- (8) The 2010 rate increase is effective retroactive to 8/25/10.
- (9) Authorized rate increase represents a current cash return on incremental V.C. Summer nuclear plant CWIP. The increase incorporates a previously authorized 11% ROE and incremental CWIP of \$399.1 million as of June 30, 2010.
- (10) The authorized 10% ROE relates to the portion of the company's rate base not associated with the Emery Generating Station and Whispering Willow Wind Farm.
- (11) Case is a limited-issue proceeding involving PacifiCorp's incremental investment in a transmission line and a wind facility.
- (12) Authorized rate increase represents a current cash return on incremental Plant Vogtle Units 3 & 4 nuclear plant CWIP. The increase incorporates a previously authorized 11.15% equity return.
- (13) Rate increase effective 8/1/10.
- (14) The rate increase approved for Boston Gas reflects the combined revenue requirement for both Boston Gas and Essex Gas. Boston Gas and Essex Gas merged their operations (effective Nov. 1, 2010), with Boston Gas the surviving entity.

Dennis Spurduto