

US Electric Utilities & IPPs

Poised to Perform with PJM

Equities

Americas
Electric Utilities

FERC approves vast majority of PJM's CP program in dream come true

In a surprising move, FERC approved in a 4:1 vote nearly the entirety of PJM's proposed Capacity Performance (CP) program; newly appointed Chairman Norman Bay was the lone dissenting vote. While we had expected a conditional approval following a dragged out process, we nor the street expected as constructive an approval, with the bulk of PJM's filing intact. We see this as among the single most positive datapoints for the power sector this year, driving upside to capacity prices for years to come for many of the sector's key IPPs and Integrated Utilities. Moreover, this lends additional upside to more constrained regions where units will have increased bidding latitude to set price. While unclear to what extent, price expectations remain biased to the upside (at least for our unchanged \$160/MW-day estimate for the RTO region).

Why the capacity performance uplift is so important?

The decision can be parsed into three separate and distinct uplifts for the PJM generators. First, it provides a uplift to past auctions, particularly those in the RTO-region, with 'transition' auctions for the 2016/17 and 2017/18 years (albeit real transition uplift is for 2016/17 rather than '17/'18). Secondly, it provides an uplift to the forthcoming PJM capacity auction to take place in August for 2018/19, and lastly provides prospective upside to future auctions as the PJM program transitions up to full 100% implementation by 2020/2021 (for this year, CP will be procure for only 80% of resources, leaving the remainder as 'Base' product). FERC Docket ER15-623.

We maintain our estimate for \$160/MW-day for the next 2018/19 auction, emphasizing the potential for regions like ComEd to break out separately. Our estimate was predicated more simply on changes to the demand curve (such as the -2.5% holdback, a reduction in Demand Response to account for heightened requirements away from summer product, and increase in bid strategies resulting from greater bidding latitude adding a 'Quantitative risk adder' to bids. We suspect those who are pivotal suppliers will clearly take some level of advantage of greater bidding latitude. We largely do not ascribe much credibility for to expectations for IPPs to bid at or near the bid cap, and as such do *not* expect prices en masse to clear at \$200/MW-day or greater (although possible for select regions).

What does this mean for shares? Quite positive.

Many investors had already moderated their expectations this Spring around what the PJM CP proposal following earlier warning signs from FERC, suggesting the latest approval is a clear positive. Following a day of positive reactions already, we suspect PJM exposed equities will continue to outperform in subsequent days as investors absorb the broad based implications, lending credibility for those more cautious on the position of the power trade. We flag EXC and DYN as the most constructively exposed given their RTO positions, albeit see TLN PEG CPN and NRG as all positively exposed as well (a complete list of sensitivities is included below). While expectations will now climb into this August (having significantly fallen off following the deficiency letter), we see an argument to being more comfortable with a wider 'power trade' into 2016 as future capacity prices will also be supported by the CP approval; it's not just a 1-yr uplift.

So what prices do expect? Unchanged on our CP view.

Julien Dumoulin-Smith

Analyst

julien.dumoulin-smith@ubs.com

+1-212-713 9848

Michael Weinstein

Associate Analyst

michael.weinstein@ubs.com

+1-212-713 3182

Paul Zimbardo

Associate Analyst

paul.zimbardo@ubs.com

+1-212-713 1033

What do we think of the 'power trade' *now*?

We're getting more comfortable, but maintain our view that Dynegy remains the single best risk-reward in the sector. We see the combination of its discounted multiple, diversified asset base, and potential for M&A provides further avenues for value enhancement beyond the forthcoming capacity auction results in PJM. We remain on the sidelines for many integrated utilities however, seeing more limited incremental value aside a trade into the PJM auction itself.

Two reasons for the (greater) power trade confidence--

- (1) Potential improvement in capacity prices in future years:** While we thought capacity prices were going to 'peak' out this year alongside spark spreads, we see the transition to a 100% CP requirement by 2020 as offsetting pressures from continued new gas CCGT build in the PJM footprint. We suspect capacity prices could yet remain elevated in subsequent periods despite this new entry. That said, it's *not* an accelerating trend. While many other power markets (NYISO, ISO-NE, and potentially MISO) have largely already peaked in terms of capacity prices, the latest reforms should enable PJM to buck this trend.
- (2) Gas prices: *Reaching a low?*** Meanwhile, we see the latest moves in the strip as pricing out near the 'bottom', particularly with the 2012 low's in mind. We emphasize recent data points on coal demand are particularly constructive. Could this summer prove the low?

Timeline for auctions set - look for late July and August

Three auctions will be held following the CP approval: the base auction on the week of August 10th, with results posted on Friday August 21st, and two interim auctions previously, with auctions results for the 2016/17 auction on July 30 and 2017/18 auction on August 6. We see the extended time (up until the last week possible per PJM's last request) as reflecting the need to line up and review bids under the finalized rules. We suspect this will prove quite a challenging task for PJM, the market monitor and generators alike given the new bid formulated methodologies approved.

Figure 1: PJM Proposed Auction Timelines

Auctions	2016/2017 Transition	2017/2018 Transition	2018/2019 CP
Offers	July 27-28	August 3-4	August 10-14
Results	July 30	August 6	August 21

Source: PJM

We suspect power equities will prove resilient through the summer period, looking to the potential uplift provided. While historically power equities have lagged in the after math of the PJM capacity auction, we see the prospect of future uplifts as holding up shares into the Fall time period.

Transition auction – should push up RTO prices

We understand there will be just one clearing price for the entire PJM footprint for the purpose of the transition auctions; limited incremental planning parameters are likely. As such, we expect the transition capacity auctions, which applies to ~60 and 70% of the capacity (respectively for 2016/17 and 2017/18) will likely clear near the MAAC (Eastern) capacity price for these respective periods. In turn, we see this as primarily a price uplift for the Western (RTO) region plants, which have cleared at lower prices. Given the limited extent of procurement of CP (just 60 and 70%), we see limited opportunity for prices to clear substantially above past auction levels, but emphasize limited risk to clearing below past auction prices. Generators effectively have the option of maintain their existing commitment, or opting for the more stringent CP commitment, with a corresponding bump in compensation.

- 2016/17 interim auctions likely price near ~\$120-130/MW-day across entire RTO, providing substantial bump up for RTO generators at \$59/MW-day. MAAC cleared at \$119/MW-day in this auction year in the BRA.
- 2017/18 interim also likely to price near \$120-130/MW-day range, albeit in this instance, there was limited difference between two auction outcomes (almost all regions cleared at \$120/MW-day), suggesting limited upside for results in this period.

Where's the upside to our estimates? Bidding flexibility.

For precisely the reasons cited by Chairman Bay's dissent, we see potential upside associated with our projections associated with increased bidding latitude, particularly for the LDAs. While we already ascribe a higher probability to Comed separating out, the question remains whether the added bidding latitude will enable other regions to potentially break out once more. While generators will be nominally allowed to bid up to $\sim 0.85 \times \text{Net CONE}$, we suspect few will do so without corresponding unit-level support around the specific economics of their plants (ie – quantitative risk adder, etc.) We see recent scrutiny of higher capacity auction results in MISO and ISO-NE as likely necessitating this more prudent approach despite the nominal ability to bid more aggressively allowed under the CP tariff. Here too, while Chair Bay dissented, we were surprised to see no softening of the bidding latitude language from PJM's original filing. For the record, we have consistently thought the PJM market approach that limited existing plants from effectively bidding about their going forward cash costs and limited incremental investments was a price suppressive factor.

Bay Dissent confirms division in the commission

Newly appointed Chairman issued a blistering dissent in the decision, effectively stating that the Capacity Performance (CP) regime would resume in a multi-billion dollar uplift without enough penalty embedded to support the level of uplift awarded to market participants. He cited PJM's own study suggesting CP approval would drive prices up by \$1.4-4 Bn per annum in the PJM footprint. His focus revolves around a mismatch between the benefits provided to customers relative to the costs incurred in the form of higher capacity payments. While his dissent is notable as newly appointed Chair, we see his dissent as having little real effect at present. Rather, we await appeals for rehearing and subsequent judicial appeal as the next avenues in the CP debate; we suspect further supporting documentation

Among the least expected, big upside surprises was the inclusion of transition auctions

Will generators bid more aggressively? Upside to estimates

Question remains around

behind the “Just & Reasonable” nature of the CP program will be necessary in these appeals, likely resulting in more explicit illustration of the cost and benefits.

Perhaps more surprising than the dissent was the concurrence by newly appointed FERC commissioner Honorable. We had suspected she would prove to be equally as consumer-oriented as Bay; we suspect the approval can be in part attributed to less of a strong view around the PJM marketplace and wider sympathy for coal plant compensation.

What about the penalties? Looking at the other side of the coin.

While the CP price uplift represents the positive impact to IPP market, an open question remains around realize penalties incurred for many assets. With many companies quite confident they can ‘meet’ the CP requirements, the question is what their expected non-performance penalties will amount to, particularly on weaker quality assets. In FERC’s final approval, the CP program adopts only an annual stop-loss at $1.5 \times \text{Net CONE}$ rather than the monthly stop-loss ultimately sought by generators at $0.5 \times \text{Net CONE}$. We see the order as meriting greater attention in this regard; with little knowledge on how material non-performance penalties could amount to (namely because all generators should prove more reliable given ongoing investment in reliability), we suspect many will opt to commit units regardless of this risk profile for the time being. We expect a more discerning approach could emerge once an empirical record of costs are developed

Credit requirements upped for new assets

Among other nuanced elements approved in the CP proposal was a tightening of the credit requirements for generators participating in the auction, likely cutting out a handful of new gas entrants in the next auction who either haven’t met the more stringent permitting requirements (must be further along in the interconnection queue) or don’t have adequate equity capital to meet credit deposit requirements (likely would sell into interim auctions instead). We still anticipate roughly 6GW of new entrants will step into the market.

CP approval also increases requirements for new units

The question now shifts to the future of Demand Response as well

With the transition to a 100% CP product, the question remains how this will impact the DR markets. While the initial reaction from many DR aggregators suggested compliance with CP remained a palatable, we suspect many resources will opt to participate only for the base 80% product in the initial couple years. Rather, the real test will be once the CP product becomes *effective for all resources* in the 2020 period; the degree of certainty of DR aggregation will remain and the question remains to what extent existing DR products will opt to effectively aggregate into more robust products to meet the tighter thresholds.

Can DR keep up with CP requirements?

will likely clear as base product for now

Other key elements of the CP proposal

Notably, the CP proposal had a number of other shifts in the program embedded, including elimination of the 2.5% holdback in the demand curve (a long awaited update to the PJM construct), which was approved. The CP proposal also includes a number of items which were not approved—and on which FERC has asked for a compliance filing to provide further clarification within 30-days. These issues largely pertain to energy market participating and unit availability. Since the CP proposal was filed as a 206 complaint (PJM effectively suggested its own tariff was

PJM must address a litany of implementation details in 30-days

unjust and unreasonable), FERC has agreed that its current tariff was indeed unjust, but must come up with a better proposal now.

Who is the most exposed?

We present the full sensitivity table for the primary PJM exposed equities we follow based upon nameplate capacity and UBS 2017E EPS or EBITDA. We describe the limitations of this approach subsequently. On a pro-forma basis we estimate that Talen (TLN) is the most exposed equity to PJM capacity revenues and trading could be particularly volatile around PJM datapoints given the sensitivity to capacity prices. In the figure below we show that a \$10/MW-Day change in the PJM auction price drives a ~\$40Mn EBITDA change after adjusting for the ~1.4GW of divestitures (ultimate magnitude could change depending on whether the 'gas' or 'hydro' package is selected). Talen guides to a \$45Mn sensitivity for a \$10/MW-Day change for the full fleet, consistent with our analysis below.

Talen remains the most sensitive to PJM capacity prices by a wide margin but other large generators have similar exposure including Dynegy, NRG, Exelon, FirstEnergy, and PEG.

Figure 2: PJM Capacity Market Sensitivity Table

PJM Capacity Market Upside	TLN	DYN	NRG	EXC	FE	PSEG	AEP	CPN	AES	NEE	D
Nameplate Capacity (MW)	11,969	11,940	18,658	22,142	9,477	12,042	8,668	4,946	3,198	1,029	1,408
EFORd Adj. (MW)	11,271	11,265	17,506	20,794	8,942	11,333	8,135	4,663	2,866	964	1,228
Clearing Price in 2016/17 \$/MW-Day	\$59.37	\$59.37	\$59.37	\$59.37	\$59.37	\$59.37	\$59.37	\$59.37	\$59.37	\$59.37	\$59.37
Clearing Price in 2017/18 \$/MW-Day	\$120	\$120	\$120	\$120	\$120	\$120	\$120	\$120	\$120	\$120	\$120
\$10/MW-day Sensitivity (\$M)	41	41	64	76	33	41	30	17	10	4	4
Impact to EPS	\$ 0.21	N/A	N/A	\$ 0.06	\$ 0.05	\$ 0.05	\$ 0.04	N/A	\$ 0.01	\$ 0.01	\$ 0.00
2017 EPS or EBITDA	\$713	\$1,395	\$2,858	\$ 2.64	\$ 2.29	\$ 2.83	\$ 3.69	\$1,946	\$ 1.42	\$ 6.53	\$ 4.14
% of total 2017 UBS Estimate	5.8%	2.9%	2.2%	2.2%	2.2%	1.9%	1.1%	0.9%	0.7%	0.1%	0.1%

Source: PJM, SNL Energy, Company Filings, and UBS Estimates * TLN, DYN, and NRG valued on EBITDA. EXC, FE, and PEG valued on EPS

Mind the base capacity auction outcome

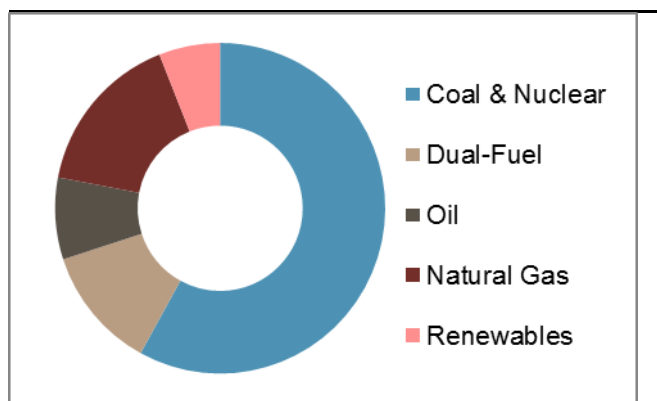
The capacity in the sensitivity analysis is adjusted for EFORd on the respective technology types but does not 'haircut' for the percent of capacity that could clear as the base product rather than as Capacity Performance. The ultimate decision on whether an asset is or is not eligible for Capacity Performance depends on management's risk tolerance but there appears to be a consensus on 'high risk' capacity' that can broadly fall into two categories:

- (1) Fuel and technology limitations:** Natural gas units without a dependable fuel source and renewables are the most likely units that would not be CP eligible. This also includes poorly supplied gas plants (particularly those behind gas LDCs) without ready access to gas directly from pipelines
- (2) Age:** Older units with reliability issues such as steam-based oil & gas generation.

NRG has emphasized that it believes CP is oriented towards "fuel certainty" and ~90% of its PJM capacity consists of coal, dual-fuel, or oil-fired capacity. The two red shades below indicate the 20% and 10% for PJM and NRG, respectively that falls outside of those classifications.

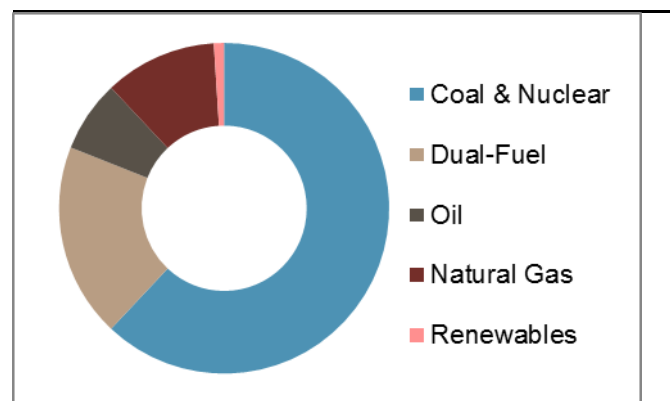
We remind investors that it is important to utilize a weighted-average for future auction expectations to account for the presumably lower base capacity auction result.

Figure 3: PJM Capacity Composition



Source: Company Filings

Figure 4: NRG PJM Capacity Composition



Source: Company Filings

Looking beyond the headline

While it is relatively transparent to assess who the biggest potential 'winners' are from the sensitivities, we highlight a few themes strong Capacity Performance results could facilitate.

- (1) AES – Putting divestiture back on the table?:** Although AES Corp has an immaterial EPS impact from a \$10/MW-Day change in the clearing price, we see Capacity Performance as a potential catalyst for management to divest its 3.5GW of generating assets at its DPL subsidiary. In July 2014 AES announced that it would retain these assets and transfer 2.9GW to a distinct affiliate before 2017. The rationale sighted for retaining the assets was "the potential recovery of power prices."

Management has recently been focusing more on contracted and stable utility earnings while removing complexity from the business. Selling the business would unlock further discretionary cash available for shareholder returns (additional repurchases and/or dividend growth), debt paydowns, and expansion investments. AES has stated that any sale of DP&L would be incremental to the additional asset sale proceed guided to by management.

- (2) AEP/FE – Reducing the regulated burden:** Staying in Ohio, a high clearing price for the Capacity Performance product could reduce the customer cost for the PPAs proposed by both AEP and FE in their respective Electric Securities Plans (ESP). The Public Utilities Commission of Ohio is evaluating the filings to assess characteristics including (financial need, necessity, compliance plan, and price impact). At its core the PPA would transfer some of the risk from shareholders (unregulated subsidiaries) to the regulated customers but in return any improvement in economics such as higher capacity prices would accrue to customers. For example, AEP asserts that the latest amended PPA could generate \$574Mn of bill credits over the next ten years with an incremental ~\$200Mn from Capacity Performance accruing to customers.
- (3) NRG – What happens to GenOn?** NRG management has recently stated that clarity on CP and the outlook for Maryland air regulations are the two key datapoints necessary to assess what the company will do with the

upcoming maturities. Senior notes with maturities of \$725Mn (2017) and \$674Mn (2018) are upcoming within the next three year period.

- (4) EXC – Nuclear plants hang in the balance:** Exelon does not anticipate a low carbon portfolio standard (LCPS) being finalized into law in Illinois at this time and could make a decision on the fact of its local nuclear assets in September (when management must notify PJM of its intentions for the following year's auction). The robustness of the Capacity Auction outcome could dictate whether Illinois enacts any pro-nuclear legislation, influencing the assets' fates. We maintain our view that prices will *not* prove adequate enough revenues to ensure its continued operation. We still expect Quad Cities to announce its retirement following the next auction.

Transition auction could be big win for select few

The transition auctions for the 2016/2017 and 2017/2018 delivery years was a somewhat unexpected surprise and we see **Exelon** and **FirstEnergy** as two of the potential beneficiaries due to their material uncleared capacity; that said, it remains unclear if they will opt to recommit capacity that formerly did not clear to yet more stringent requirements. In addition the question remains whether NRG will be a beneficiary for capacity that may not have previously cleared.

While there could be other companies with notable capacity without encumbrances for the transition auctions, we focus on two names (EXC and FE) as management has confirmed that significant assets did not clear previously. The impact of the potential CP uplift will not impact near-term estimates; however, the transition auctions could cause estimate revisions for the next fiscal year. Importantly with many investors valuing the companies on 2017, any incremental revenues could directly translate to higher valuations.

Figure 5: Incremental Auction Sensitivities

Generator	EXC	FE	NRG
Nameplate Capacity (MW)	4,802	2,683	1,134
EFORd Adj. (MW)	4,531	2,531	1,070
\$50/MW-day Sensitivity (\$M)	83	46	20
Impact to EPS	\$ 0.06	\$ 0.07	NA
2017 EPS or EBITDA	\$ 2.64	\$ 2.29	\$2,858
% of total 2017 UBS Estimate	2.3%	3.1%	0.7%

Source: PJM, SNL Energy, Company Filings, and UBS Estimates * NRG valued on EBITDA. EXC and FE, valued on EPS

FirstEnergy's 'Solution' to Capacity Performance compliance

FE has ~2.8GW of capacity that did not clear in each of the 2016/2017 and 2017/2018 PJM auctions, the bulk of which is the 2.5GW Bruce Mansfield coal plant. FE management disclosed on the 2Q14 earnings call subsequent to the most recent PJM auction that the asset did not clear in the 2017/2018 auction and only partially cleared in the previous 2016/2017 auction. We caution that FE management commentary suggested FES could yet continue to only partially clear its portfolio under the new regime. It will provide an updated maintenance capex outlook for its plants alongside the CP auction results – and corresponding CP bid commitments.

Figure 6: FES Capacity Revenue Analysis

FES Capacity Revenue Analysis	2012	2013	2014	2015	2016	2017	2018
Capacity Revenues	405	170	340	892	670	374	385
RTO	171	45	155	242	151	147	186
MAAC	33	5	5	4	4	3	3
EMAAC	4	4	3	3	3	2	2
ATSI	197	58	177	643	512	221	194
Incremental auction uplift at \$50/MW-Day							
BRA Capacity Revenue GUIDANCE Aug 5 Factbook P61							
Guidance by BRA Year (May '15 Factbook P63)		2013/14	2014/15	2015/16	2016/17	2017/2018	
		140	485	1,185	240	390	
			2014	2015	2016	2017	
-Guidance by Fiscal Year			341	893	634	328	
Vs UBS (2016/2017 higher due to inc. auction)			(1)	(2)	36	46	

Source: Company Filings and UBS Estimates

Lastly, we estimate that at least some portion of NRG's GenOn Chalk Point and Dickerson did not clear in the previous auction (~1.1GW). This is based on a unit level analysis we performed following the PJM auction, further details are available in our note ['Further Thoughts on the RPM Auction'](#).

A Summary of Past Auctions

We include a summary of past PJM capacity price auction outcomes, including our latest forecast for 2018/19.

Figure 7: PJM Capacity Prices – Historic and Projected (\$/MW-day)

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
RTO	40.8	111.9	102.0	174.3	110.0	16.5	27.7	126.0	136.0	59.4	120.0	160.0
EMAAC	197.7	148.8	191.3	174.3	110.0	139.7	245.0	136.5	167.5	119.1	120.0	160.0
SWMAAC	188.5	210.1	237.3	174.3	110.0	133.4	226.2	136.5	167.5	119.1	120.0	160.0
MAAC					110.0	133.4	226.2	136.5	167.5	119.1	120.0	160.0
DPL-S				186.1	110.0	222.3	245.0	136.5	167.5	119.1	120.0	160.0
PS-N						185.0	245.0	225.0	167.5	219.0	215.0	160.0
PSEG						139.7	245.0	136.5	167.5	219.0	215.0	160.0
PEPCO							247.1	136.5	167.5	119.1	120.0	160.0
ATSI									357.0	114.2	120.0	160.0

Source: PJM and UBS estimates

Statement of Risk

Risks for Utilities and Independent Power Producers (IPPs) primarily relate to volatile commodity prices for power, natural gas, and coal. Risks to IPPs also stem from load variability, and operational risk in running these facilities. Rising coal and, to a certain extent, uranium prices could pressure margins as the fuel hedges roll off Competitive Integrations. Further, IPPs face declining revenues as in the money power and gas hedges roll off. Other non-regulated risks include weather and for some, foreign currency risk, which again must be diligently accounted in the company's risk management operations. Major external factors, which affect our valuation, are environmental risks. Environmental capex could escalate if stricter emission standards are implemented. We believe a nuclear accident or a change in the Nuclear Regulatory Commission/Environment Protection Agency regulations could have a negative impact on our estimates. Risks for regulated utilities include the uncertainty around the composition of state regulatory Commissions, adverse regulatory changes, unfavorable weather conditions, variance from normal population growth, and changes in customer mix. Changes in macroeconomic factors will affect customer additions/subtractions and usage patterns.

Required Disclosures

This report has been prepared by UBS Securities LLC, an affiliate of UBS AG. UBS AG, its subsidiaries, branches and affiliates are referred to herein as UBS.

For information on the ways in which UBS manages conflicts and maintains independence of its research product; historical performance information; and certain additional disclosures concerning UBS research recommendations, please visit www.ubs.com/disclosures. The figures contained in performance charts refer to the past; past performance is not a reliable indicator of future results. Additional information will be made available upon request. UBS Securities Co. Limited is licensed to conduct securities investment consultancy businesses by the China Securities Regulatory Commission.

Analyst Certification: Each research analyst primarily responsible for the content of this research report, in whole or in part, certifies that with respect to each security or issuer that the analyst covered in this report: (1) all of the views expressed accurately reflect his or her personal views about those securities or issuers and were prepared in an independent manner, including with respect to UBS, and (2) no part of his or her compensation was, is, or will be, directly or indirectly, related to the specific recommendations or views expressed by that research analyst in the research report.

UBS Investment Research: Global Equity Rating Definitions

12-Month Rating	Definition	Coverage ¹	IB Services ²
Buy	FSR is > 6% above the MRA.	45%	37%
Neutral	FSR is between -6% and 6% of the MRA.	43%	33%
Sell	FSR is > 6% below the MRA.	12%	20%
Short-Term Rating	Definition	Coverage ³	IB Services ⁴
Buy	Stock price expected to rise within three months from the time the rating was assigned because of a specific catalyst or event.	less than 1%	less than 1%
Sell	Stock price expected to fall within three months from the time the rating was assigned because of a specific catalyst or event.	less than 1%	less than 1%

Source: UBS. Rating allocations are as of 31 March 2015.

1:Percentage of companies under coverage globally within the 12-month rating category. 2:Percentage of companies within the 12-month rating category for which investment banking (IB) services were provided within the past 12 months.

3:Percentage of companies under coverage globally within the Short-Term rating category. 4:Percentage of companies within the Short-Term rating category for which investment banking (IB) services were provided within the past 12 months.

KEY DEFINITIONS: **Forecast Stock Return (FSR)** is defined as expected percentage price appreciation plus gross dividend yield over the next 12 months. **Market Return Assumption (MRA)** is defined as the one-year local market interest rate plus 5% (a proxy for, and not a forecast of, the equity risk premium). **Under Review (UR)** Stocks may be flagged as UR by the analyst, indicating that the stock's price target and/or rating are subject to possible change in the near term, usually in response to an event that may affect the investment case or valuation. **Short-Term Ratings** reflect the expected near-term (up to three months) performance of the stock and do not reflect any change in the fundamental view or investment case. **Equity Price Targets** have an investment horizon of 12 months.

EXCEPTIONS AND SPECIAL CASES: **UK and European Investment Fund ratings and definitions are:** **Buy:** Positive on factors such as structure, management, performance record, discount; **Neutral:** Neutral on factors such as structure, management, performance record, discount; **Sell:** Negative on factors such as structure, management, performance record, discount. **Core Banding Exceptions (CBE):** Exceptions to the standard +/-6% bands may be granted by the Investment Review Committee (IRC). Factors considered by the IRC include the stock's volatility and the credit spread of the respective company's debt. As a result, stocks deemed to be very high or low risk may be subject to higher or lower bands as they relate to the rating. When such exceptions apply, they will be identified in the Company Disclosures table in the relevant research piece.

Research analysts contributing to this report who are employed by any non-US affiliate of UBS Securities LLC are not registered/qualified as research analysts with the NASD and NYSE and therefore are not subject to the restrictions contained in the NASD and NYSE rules on communications with a subject company, public appearances, and trading securities held by a research analyst account. The name of each affiliate and analyst employed by that affiliate contributing to this report, if any, follows.

UBS Securities LLC: Julien Dumoulin-Smith; Michael Weinstein; Paul Zimbardo.

Company Disclosures

Company Name	Reuters	12-month rating	Short-term rating	Price	Price date
AES Corporation ¹⁶	AES.N	Neutral	N/A	US\$13.32	10 Jun 2015
American Electric Power, Inc. ^{2, 4, 6a, 6b, 7, 16}	AEP.N	Neutral	N/A	US\$53.89	10 Jun 2015
Calpine Corporation ^{2, 4, 6a, 16}	CPN.N	Neutral	N/A	US\$19.75	10 Jun 2015
Dominion Resources ^{2, 4, 6a, 6b, 6c, 7, 16}	D.N	Buy	N/A	US\$66.85	10 Jun 2015
Dynegy, Inc. ^{2, 4, 5, 6a, 16}	DYN.N	Buy	N/A	US\$33.65	10 Jun 2015
Exelon Corp. ^{4, 5, 6a, 6c, 7, 16}	EXC.N	Neutral	N/A	US\$34.18	10 Jun 2015
FirstEnergy Corp. ¹⁶	FE.N	Sell	N/A	US\$34.54	10 Jun 2015
NextEra Energy ^{2, 4, 6a, 16}	NEE.N	Buy	N/A	US\$99.12	10 Jun 2015
NRG Energy Inc. ¹⁶	NRG.N	Buy	N/A	US\$24.62	10 Jun 2015
Public Service Enterprise Group ¹⁶	PEG.N	Neutral	N/A	US\$40.24	10 Jun 2015
Talen Energy Corp ¹⁶	TLN.N	Sell	N/A	US\$19.09	10 Jun 2015

Source: UBS. All prices as of local market close.

Ratings in this table are the most current published ratings prior to this report. They may be more recent than the stock pricing date

2. UBS AG, its affiliates or subsidiaries has acted as manager/co-manager in the underwriting or placement of securities of this company/entity or one of its affiliates within the past 12 months.
4. Within the past 12 months, UBS AG, its affiliates or subsidiaries has received compensation for investment banking services from this company/entity or one of its affiliates.
5. UBS AG, its affiliates or subsidiaries expect to receive or intend to seek compensation for investment banking services from this company/entity within the next three months.
- 6a. This company/entity is, or within the past 12 months has been, a client of UBS Securities LLC, and investment banking services are being, or have been, provided.
- 6b. This company/entity is, or within the past 12 months has been, a client of UBS Securities LLC, and non-investment banking securities-related services are being, or have been, provided.
- 6c. This company/entity is, or within the past 12 months has been, a client of UBS Securities LLC, and non-securities services are being, or have been, provided.
7. Within the past 12 months, UBS Securities LLC has received compensation for products and services other than investment banking services from this company/entity.
16. UBS Securities LLC makes a market in the securities and/or ADRs of this company.

For a complete set of disclosure statements associated with the companies discussed in this report, including information on valuation and risk, please contact UBS Securities LLC, 1285 Avenue of Americas, New York, NY 10019, USA, Attention: Publishing Administration.

Unless otherwise indicated, please refer to the Valuation and Risk sections within the body of this report.

Global Disclaimer

This document has been prepared by UBS Securities LLC, an affiliate of UBS AG. UBS AG, its subsidiaries, branches and affiliates are referred to herein as UBS.

Global Research is provided to our clients through UBS Neo, the UBS Client Portal and UBS.com (each a "System"). It may also be made available through third party vendors and distributed by UBS and/or third parties via e-mail or alternative electronic means. The level and types of services provided by Global Research to a client may vary depending upon various factors such as a client's individual preferences as to the frequency and manner of receiving communications, a client's risk profile and investment focus and perspective (e.g. market wide, sector specific, long-term, short-term, etc.), the size and scope of the overall client relationship with UBS and legal and regulatory constraints.

When you receive Global Research through a System, your access and/or use of such Global Research is subject to this Global Research Disclaimer and to the terms of use governing the applicable System.

When you receive Global Research via a third party vendor, e-mail or other electronic means, your use shall be subject to this Global Research Disclaimer and to UBS's Terms of Use/Disclaimer (<http://www.ubs.com/global/en/legalinfo2/disclaimer.html>). By accessing and/or using Global Research in this manner, you are indicating that you have read and agree to be bound by our Terms of Use/Disclaimer. In addition, you consent to UBS processing your personal data and using cookies in accordance with our Privacy Statement (<http://www.ubs.com/global/en/legalinfo2/privacy.html>) and cookie notice (<http://www.ubs.com/global/en/homepage/cookies/cookie-management.html>).

If you receive Global Research, whether through a System or by any other means, you agree that you shall not copy, revise, amend, create a derivative work, transfer to any third party, or in any way commercially exploit any UBS research provided via Global Research or otherwise, and that you shall not extract data from any research or estimates provided to you via Global Research or otherwise, without the prior written consent of UBS.

For access to all available Global Research on UBS Neo and the Client Portal, please contact your UBS sales representative.

This document is for distribution only as may be permitted by law. It is not directed to, or intended for distribution to or use by, any person or entity who is a citizen or resident of or located in any locality, state, country or other jurisdiction where such distribution, publication, availability or use would be contrary to law or regulation or would subject UBS to any registration or licensing requirement within such jurisdiction. It is published solely for information purposes; it is not an advertisement nor is it a solicitation or an offer to buy or sell any financial instruments or to participate in any particular trading strategy. No representation or warranty, either expressed or implied, is provided in relation to the accuracy, completeness or reliability of the information contained in this document ("the Information"), except with respect to Information concerning UBS. The Information is not intended to be a complete statement or summary of the securities, markets or developments referred to in the document. UBS does not undertake to update or keep current the Information. Any opinions expressed in this document may change without notice and may differ or be contrary to opinions expressed by other business areas or groups of UBS. Any statements contained in this report attributed to a third party represent UBS's interpretation of the data, information and/or opinions provided by that third party either publicly or through a subscription service, and such use and interpretation have not been reviewed by the third party.

Nothing in this document constitutes a representation that any investment strategy or recommendation is suitable or appropriate to an investor's individual circumstances or otherwise constitutes a personal recommendation. Investments involve risks, and investors should exercise prudence and their own judgement in making their investment decisions. The financial instruments described in the document may not be eligible for sale in all jurisdictions or to certain categories of investors. Options, derivative products and futures are not suitable for all investors, and trading in these instruments is considered risky. Mortgage and asset-backed securities may involve a high degree of risk and may be highly volatile in response to fluctuations in interest rates or other market conditions. Foreign currency rates of exchange may adversely affect the value, price or income of any security or related instrument referred to in the document. For investment advice, trade execution or other enquiries, clients should contact their local sales representative.

The value of any investment or income may go down as well as up, and investors may not get back the full (or any) amount invested. Past performance is not necessarily a guide to future performance. Neither UBS nor any of its directors, employees or agents accepts any liability for any loss (including investment loss) or damage arising out of the use of all or any of the Information.

Any prices stated in this document are for information purposes only and do not represent valuations for individual securities or other financial instruments. There is no representation that any transaction can or could have been effected at those prices, and any prices do not necessarily reflect UBS's internal books and records or theoretical model-based valuations and may be based on certain assumptions. Different assumptions by UBS or any other source may yield substantially different results.

This document and the Information are produced by UBS as part of its research function and are provided to you solely for general background information. UBS has no regard to the specific investment objectives, financial situation or particular needs of any specific recipient. In no circumstances may this document or any of the Information be used for any of the following purposes:

- (i) valuation or accounting purposes;
- (ii) to determine the amounts due or payable, the price or the value of any financial instrument or financial contract; or
- (iii) to measure the performance of any financial instrument.

By receiving this document and the Information you will be deemed to represent and warrant to UBS that you will not use this document or any of the Information for any of the above purposes or otherwise rely upon this document or any of the Information.

Research will initiate, update and cease coverage solely at the discretion of UBS Investment Bank Research Management. The analysis contained in this document is based on numerous assumptions. Different assumptions could result in materially different results. The analyst(s) responsible for the preparation of this document may interact with trading desk personnel, sales personnel and other parties for the purpose of gathering, applying and interpreting market information. UBS relies on information barriers to control the flow of information contained in one or more areas within UBS into other areas, units, groups or affiliates of UBS. The compensation of the analyst who prepared this document is determined exclusively by research management and senior management (not including investment banking). Analyst compensation is not based on investment banking revenues; however, compensation may relate to the revenues of UBS Investment Bank as a whole, of which investment banking, sales and trading are a part.

For financial instruments admitted to trading on an EU regulated market: UBS AG, its affiliates or subsidiaries (excluding UBS Securities LLC) acts as a market maker or liquidity provider (in accordance with the interpretation of these terms in the UK) in the financial instruments of the issuer save that where the activity of liquidity provider is carried out in accordance with the definition given to it by the laws and regulations of any other EU jurisdictions, such information is separately disclosed in this document. For financial instruments admitted to trading on a non-EU regulated market: UBS may act as a market maker save that where this activity is carried out in the US in accordance with the definition given to it by the relevant laws and regulations, such activity will be specifically disclosed in this document. UBS may have issued a warrant the value of which is based on one or more of the financial instruments referred to in the document. UBS and its affiliates and employees may have long or short positions, trade as principal and buy and sell in instruments or derivatives identified herein; such transactions or positions may be inconsistent with the opinions expressed in this document.

United Kingdom and the rest of Europe: Except as otherwise specified herein, this material is distributed by UBS Limited to persons who are eligible counterparties or professional clients. UBS Limited is authorised by the Prudential Regulation Authority and regulated by the Financial Conduct Authority and the Prudential Regulation Authority. **France:** Prepared by UBS Limited and distributed by UBS Limited and UBS Securities France S.A. UBS Securities France S.A. is regulated by the ACPR (Autorité de Contrôle Prudentiel et de Résolution) and the Autorité des Marchés Financiers (AMF). Where an analyst of UBS Securities France S.A. has contributed to this document, the document is also deemed to have been prepared by UBS Securities France S.A. **Germany:** Prepared by UBS Limited and distributed by UBS Limited and UBS Deutschland AG. UBS Deutschland AG is regulated by the Bundesanstalt für Finanzdienstleistungsaufsicht (BaFin). **Spain:** Prepared by UBS Limited and distributed by UBS Limited and UBS Securities España SV, SA. UBS Securities España SV, SA is regulated by the Comisión Nacional del Mercado de Valores (CNMV). **Turkey:** Distributed by UBS Limited. No information in this document is provided for the purpose of offering, marketing and sale by any means of any capital market instruments and services in the Republic of Turkey. Therefore, this document may not be considered as an offer made or to be made to residents of the Republic of Turkey. UBS AG is not licensed by the Turkish Capital Market Board under the provisions of the Capital Market Law (Law No. 6362). Accordingly, neither this document nor any other offering material related to the instruments/services may be utilized in connection with providing any capital market services to persons within the Republic of Turkey without the prior approval of the Capital Market Board. However, according to article 15 (d) (ii) of the Decree No. 32, there is no restriction on the purchase or sale of the securities abroad by residents of the Republic of Turkey. **Poland:** Distributed by UBS Limited (spółka z ograniczoną odpowiedzialnością) Oddział w Polsce regulated by the Polish Financial Supervision Authority. Where an analyst of UBS Limited (spółka z ograniczoną odpowiedzialnością) Oddział w Polsce has contributed to this document, the document is also deemed to have been prepared by UBS Limited (spółka z ograniczoną odpowiedzialnością) Oddział w Polsce. **Russia:** Prepared and distributed by UBS Bank (OOO). **Switzerland:** Distributed by UBS AG to persons who are institutional investors only. UBS AG is regulated by the Swiss Financial Market Supervisory Authority (FINMA). **Italy:** Prepared by UBS Limited and distributed by UBS Limited and UBS Italia Sim S.p.A. UBS Italia Sim S.p.A. is regulated by the Bank of Italy and by the Commissione Nazionale per le Società e la Borsa (CONSOB). Where an analyst of UBS Italia Sim S.p.A. has contributed to this document, the document is also deemed to have been prepared by UBS Italia Sim S.p.A. **South Africa:** Distributed by UBS South Africa (Pty) Limited (Registration No. 1995/011140/07), an authorised user of the JSE and an authorised Financial Services Provider (FSP 7328). **Israel:** This material is distributed by UBS Limited. UBS Limited is authorised by the Prudential Regulation Authority and regulated by the Financial Conduct Authority and the Prudential Regulation Authority. UBS Securities Israel Ltd is a licensed Investment Marketer that is supervised by the Israel Securities Authority (ISA). UBS Limited and its affiliates incorporated outside Israel are not licensed under the Israeli Advisory Law. UBS Limited is not covered by insurance as required from a licensee under the Israeli Advisory Law. UBS may engage among others in issuance of Financial Assets or in distribution of Financial Assets of other issuers for fees or other benefits. UBS Limited and its affiliates may prefer various Financial Assets to which they have or may have Affiliation (as such term is defined under the Israeli Advisory Law). Nothing in this Material should be considered as investment advice under the Israeli Advisory Law. This Material is being issued only to and/or is directed only at persons who are Eligible Clients within the meaning of the Israeli Advisory Law, and this material must not be relied on or acted upon by any other persons. **Saudi Arabia:** This document has been issued by UBS AG (and/or any of its subsidiaries, branches or affiliates), a public company limited by shares, incorporated in Switzerland with its registered offices at Aeschenvorstadt 1, CH-4051 Basel and Bahnhofstrasse 45, CH-8001 Zurich. This publication has been approved by UBS Saudi Arabia (a subsidiary of UBS AG), a Saudi closed joint stock company incorporated in the Kingdom of Saudi Arabia under commercial register number 1010257812 having its registered office at Tatweer Towers, P.O. Box 75724, Riyadh 11588, Kingdom of Saudi Arabia. UBS Saudi Arabia is authorized and regulated by the Capital Market Authority to conduct securities business under license number 08113-37. **Dubai:** The information distributed by UBS AG Dubai Branch is intended for Professional Clients only and is not for further distribution within the United Arab Emirates. **United States:** Distributed to US persons by either UBS Securities LLC or by UBS Financial Services Inc., subsidiaries of UBS AG; or by a group, subsidiary or affiliate of UBS AG that is not registered as a US broker-dealer (a 'non-US affiliate') to major US institutional investors only. UBS Securities LLC or UBS Financial Services Inc. accepts responsibility for the content of a document prepared by another non-US affiliate when distributed to US persons by UBS Securities LLC or UBS Financial Services Inc. All transactions by a US person in the securities mentioned in this document must be effected through UBS Securities LLC or UBS Financial Services Inc., and not through a non-US affiliate. **Canada:** Distributed by UBS Securities Canada Inc., a registered investment dealer in Canada and a Member-Canadian Investor Protection Fund, or by another affiliate of UBS AG that is registered to conduct business in Canada or is otherwise exempt from registration. **Brazil:** Except as otherwise specified herein, this material is prepared by UBS Brasil CCTVM S.A. to persons who are eligible investors residing in Brazil, which are considered to be: (i) financial institutions, (ii) insurance firms and investment capital companies, (iii) supplementary pension entities, (iv) entities that hold financial investments higher than R\$300,000.00 and that confirm the status of qualified investors in written, (v) investment funds, (vi) securities portfolio managers and securities consultants duly authorized by Comissão de Valores Mobiliários (CVM), regarding their own investments, and (vii) social security systems created by the Federal Government, States, and Municipalities. **Hong Kong:** Distributed by UBS Securities Asia Limited and/or UBS AG, Hong Kong Branch. **Singapore:** Distributed by UBS Securities Pte. Ltd. [MCI (P) 016/09/2014 and Co. Reg. No.: 198500648C] or UBS AG, Singapore Branch. Please contact UBS Securities Pte. Ltd., an exempt financial adviser under the Singapore Financial Advisers Act (Cap. 110); or UBS AG, Singapore Branch, an exempt financial adviser under the Singapore Financial Advisers Act (Cap. 110) and a wholesale bank licensed under the Singapore Banking Act (Cap. 19) regulated by the Monetary Authority of Singapore, in respect of any matters arising from, or in connection with, the analysis or document. The recipients of this document represent and warrant that they are accredited and institutional investors as defined in the Securities and Futures Act (Cap. 289). **Japan:** Distributed by UBS Securities Japan Co., Ltd. to professional investors (except as otherwise permitted). Where this document has been prepared by UBS Securities Japan Co., Ltd., UBS Securities Japan Co., Ltd. is the author, publisher and distributor of the document. Distributed by UBS AG, Tokyo Branch to Professional Investors (except as otherwise permitted) in relation to foreign exchange and other banking businesses when relevant. **Australia:** Clients of UBS AG: Distributed by UBS AG (Holder of Australian Financial Services License No. 231087). Clients of UBS Securities Australia Ltd: Distributed by UBS Securities Australia Ltd (Holder of Australian Financial Services License No. 231098). Clients of UBS Wealth Management Australia Ltd: Distributed by UBS Wealth Management Australia Ltd (Holder of Australian Financial Services License No. 231127). This Document contains general information and/or general advice only and does not constitute personal financial product advice. As such, the information in this document has been prepared without taking into account any investor's objectives, financial situation or needs, and investors should, before acting on the information, consider the appropriateness of the information, having regard to their objectives, financial situation and needs. If the information contained in this document relates to the acquisition, or potential acquisition of a particular financial product by a 'Retail' client as defined by section 761G of the Corporations Act 2001 where a Product Disclosure Statement would be required, the retail client should obtain and consider the Product Disclosure Statement relating to the product before making any decision about whether to acquire the product. The UBS Securities Australia Limited Financial Services Guide is available at: www.ubs.com/ecs-research-fsg. **New Zealand:** Distributed by UBS New Zealand Ltd. The information and recommendations in this publication are provided for general information purposes only. To the extent that any such information or recommendations constitute financial advice, they do not take into account any person's particular financial situation or goals. We recommend that recipients seek advice specific to their circumstances from their financial advisor. **Korea:** Distributed in Korea by UBS Securities Pte. Ltd., Seoul Branch. This document may have been edited or contributed to from time to time by affiliates of UBS Securities Pte. Ltd., Seoul Branch. **Malaysia:** This material is authorized to be distributed in Malaysia by UBS Securities Malaysia Sdn. Bhd (Capital Markets Services License No.: CMSL/A0063/2007). This material is intended for professional/institutional clients only and not for distribution to any retail clients. **India:** Prepared by UBS Securities India Private Ltd. (Corporate Identity Number U67120MH1996PTC097299) 2/F, 2 North Avenue, Maker Maxity, Bandra Kurla Complex, Bandra (East), Mumbai (India) 400051. Phone: +912261556000. It provides brokerage services bearing SEBI Registration Numbers: NSE (Capital Market Segment): INB230951431, NSE (F&O Segment) INF230951431, NSE (Currency Derivatives Segment) INE230951431, BSE (Capital Market Segment) INB010951437; merchant banking services bearing SEBI Registration Number: INM000010809 and research services. UBS AG, its affiliates or subsidiaries may have debt holdings or positions in the subject Indian company/companies. Within the past 12 months, UBS AG, its affiliates or subsidiaries may have received compensation for non-investment banking securities-related services and/or non-securities services from the subject Indian company/companies. With regard to information on associates, please refer Annual Report at: http://www.ubs.com/global/en/about_ubs/investor_relations/annualreporting.html

The disclosures contained in research documents produced by UBS Limited shall be governed by and construed in accordance with English law.

UBS specifically prohibits the redistribution of this document in whole or in part without the written permission of UBS and UBS accepts no liability whatsoever for the actions of third parties in this respect. Images may depict objects or elements that are protected by third party copyright, trademarks and other intellectual property rights. © UBS 2015. The key symbol and UBS are among the registered and unregistered trademarks of UBS. All rights reserved.

