# NARUC Winter Committee Meetings

Wall Street Turmoil:

Outlook for 2009 and Implications for Utilities and Regulators

February 17, 2009





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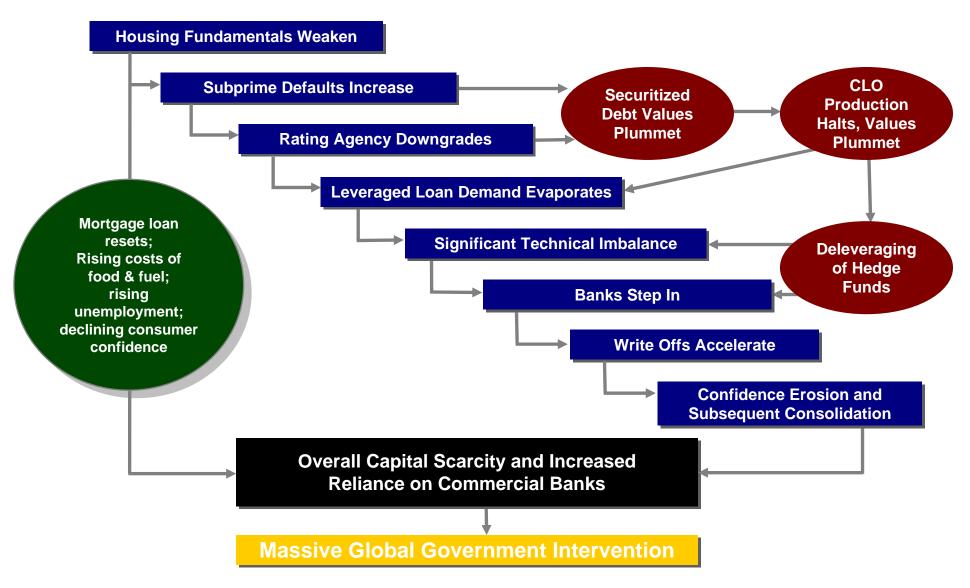
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### The Domino Effect—How the Credit Market Unraveled



### **Balance Sheet Stress for Financial Institutions**

### **Earnings Pressure**

- Business volumes contract and leverage decrease
- Certain business lines no longer viable
- ◆ Funding costs increase (see below)

#### Structured Credit Write-Downs

- ◆ \$712 Billion Bank Charges as of Nov 2008
- ◆ Uncertain outlook including affect of the TARP
- ◆ Asset values have not reached equilibrium

### **Accelerating Credit Losses**

- Consumer losses at record highs (mortgage, credit cards)
- Non-consumer losses rising (commercial real estate, corporate loans)

Banks /
Financials
Balance Sheet
Stress

### **Increasing Funding Costs**

- Availability of overnight funding reduced
- ◆ Debt and equity cost increased dramatically
- ◆ Securitization/Recycling of Loans has stalled

### **Balance Sheet Resizing**

- Impact of off-balance sheet returning to balance sheet
- Regulators and Credit Agencies seek increased capital strength
- ◆ Deleveraging impact on asset values





# Fundamental Restructuring of Financial Sector → Fewer banks, Reduced Lending Capacity



Balance Sheet: a New Reality (a)					
(\$bn)	Pre-tax writedown	Capital Raising			
Wachovia	\$97	\$50			
Citi	65	116			
Merrill Lynch	62	58			
Washington Mutual	46	11			
UBS	44	37			
HSBC	33	5			
Bank of America	27	56			
J.P. Morgan	21	46			
Morgan Stanley	16	25			
RBS	15	49			
Lehman Brothers	14	14			
IKB	13	11			
Deutsche Bank	12	6			
Credit Suisse	10	12			
HBOS	9	23			
Credit Agricole	9	11			
Barclays	7	26			
Other	212	179			
Total (as of November 2008)	\$712	\$735			

- > Thru 11/08, banks have taken ~\$712bn in write-downs mostly related to losses on mortgage backed securities. In response, banks have raised an extraordinary \$735bn of new capital;
- As banks reduce balance sheet risk (including investment banks becoming bank holding companies) there is a large, adverse multiplier effect on capital available for lending activities

(a) Writedowns as of November 2008.



### **Government Lends a Hand and \$**

#### **CONGRESS / TREASURY**

- Housing and Economic Recovery Act (HERA) 7/30/2008
  - Homeowners can refinance into FHA loans w principal write-down
- ◆ FNM/FRE Conservatorship 9/7/2008
  - Government Sponsored Enterprise (GSE) Credit Facility
  - GSE Senior Preferred Stock & MBS Purchase Agreement
- ◆ Guarantee Program for Money Market Funds 9/19/2008
  - Guarantees participating money funds from breaking the buck
- Troubled Asset Relief Program (TARP) 9/28/2008
  - Capital purchase program to buy troubled assets or preferred shares from U.S banks and thrifts
- Emergency Economic Stability Act (EESA) 10/3/2008
  - Creates the troubled asset program (TARP)
- ◆ FDIC Deposit Insurance Limit Increase 10/3/2008
  - Increases Account Limit to \$250,000 from \$100,000
- ♦ Temporary Liquidity Guarantee Program (TLGP) 10/14/2008
  - FDIC guarantees newly issued Senior Unsecured debt of banks, thrifts and certain holding companies
- ◆ Term-Asset Backed Securities Loan Facility (TALF) 11/25/2008
  - Fed provides \$200 Bn in loans to lend against AAA rated ABS
- ◆ Expected Fiscal Stimulus Under Discussion
  - Expected to include large infrastructure component

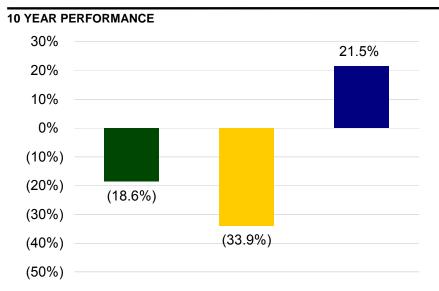
#### **FEDERAL RESERVE**

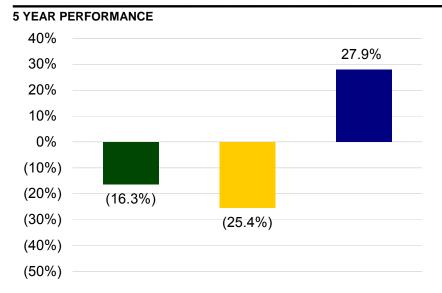
- ◆ Term Auction Facility (TAF) 12/12/2007
  - Overnight loan facility that provides funding
- ◆ Term Securities Lending Facility (TSLF) 3/11/2008
  - Provides loans over a 1-month term against eligible collateral
- ◆ Primary Dealer Credit Facility (PDCF) 3/16/2008
  - Overnight loan facility funding a range of eligible collateral
- ♦ Foreign Currency Swaps 9/18/2008
  - Unlimited currency swaps w central banks including ECB
- ◆ Asset Backed Commercial Paper Money Market Fund Liquidity Facility (AMLF) – 9/19/2008
  - Banks borrow from the Fed to purchase ABCP from money market funds at amortized cost and zero risk weighting
- ◆ Commercial Paper Funding Facility (CPFF) 10/7/2008
  - The Fed buys 3-month commercial paper from Tier 1 issuers
- ♦ Money Market Investor Funding Facility (MMIF) 10/21/2008
  - Fed buys CP, bank notes and CDs to 90 days maturity from money market funds
- ◆ GSE Debt and MBS Purchase Program 11/25/2008
  - Fed buys Fannie, Freddie & Home Loan Debentures and Agency MBS

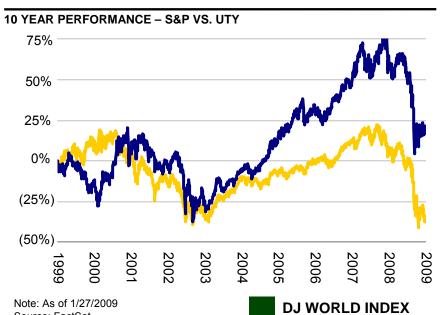


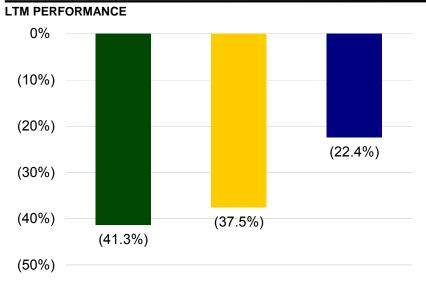


# **Stock Market Performance**









**UTY INDEX** 

**S&P 500 INDEX** 



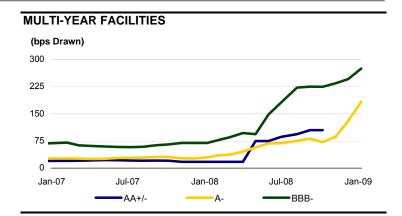
# **High Grade Loan Market Overview**

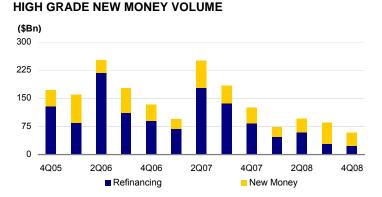
#### Market Conditions

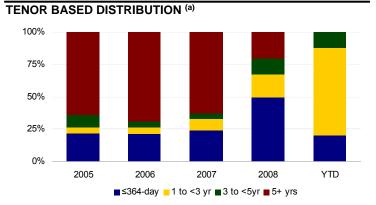
- High grade demand is severely constrained, with the forward calendar at near a record low of \$874 MM
- This has resulted in sharp declines in volume and tenor alongside increasing spreads and structural requirements. Lender friendly conditions are expected to continue in 2009, given economic conditions
- In tandem with the leveraged loan market, an intense focus on risk and return is driving spreads wider, CDS based pricing, which is used to ensure risk appropriate returns, is increasingly common
- Financial sector specific concerns have had particular negative ramifications for these borrowers looking to raise capital
- Shorter dated facilities became the new norm in 2008, reversing the trend of longterm commitments, which were favored from 2004 through 2007

### Takeaway

- Market remains weak with lenders focused on capital preservation and risk/return
- In general, pricing is moving up for incremental dollars on all but the highest rated investment grade deals or those with exceptionally strong bank relationships.
- A key factor in determining the market clearing price is the expected usage under the facility, which can significantly boost relationship return. In addition, investors are increasingly vocal with regard to ancillary business opportunities







(a) All other volumes other than "YTD" refer to closed





# **High Grade Debt Market Overview**

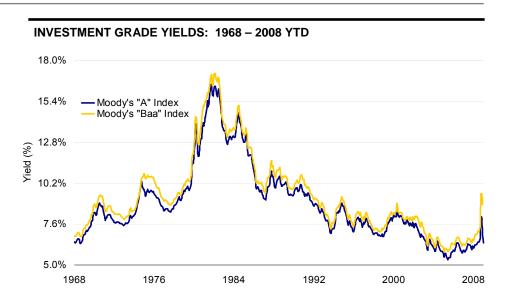
- The "Golden Age" for investment grade issuers, which peaked in 2005 when credit spreads and financing costs reached a 35-year low, ended with the onset of the credit crisis in July 2007
  - With credit in short supply, liquidity is harder to come by and the cost of funding across the capital structure has increased substantially
- Rapid deterioration in the financial sector and corporate credit markets during 3Q '08 brought a historic wholesale widening of credit spreads, a slowdown in high grade new issue supply and a standstill in secondary trading activity
  - Institutional investors have exhibited a preference for large, liquid transactions from high-quality, defensive industrial issuers. Market depth for BBB names has improved but access still remains credit specific

INIVECTMENT	CDADE VIELDS	1968 – 2008YTD <sup>(a)</sup>
INVESTIMENT	GRADE HELDS.	. 1900 – ZUUG I I D 🖑

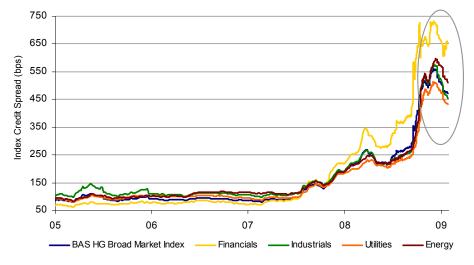
1968 - 2009	2005 - 2009
6.60%	6.60%
16.47%	8.07%
5.33%	5.33%
8.91%	6.12%
1968 - 2009	2005 - 2009
8.30%	8.30%
17.18%	9.54%
5.82%	5.82%
9.38%	6.69%
	6.60% 16.47% 5.33% 8.91% <b>1968 - 2009</b> 8.30% 17.18% 5.82%

### (a) Source: Bloomberg.





# HIGH GRADE SECONDARY MARKET INDEX CREDIT SPREAD AND TRADING STATISTICS

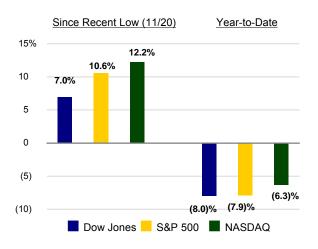


# **Current Equity Market Conditions**

#### **KEY FACTORS IMPACTING EQUITY MARKETS**

- Global economic weakness
- Weak corporate earnings outlook
- Sell-off in commodities
- ♦ Middle East conflict
- ◆ TARP reform / implementation
- Potential Stimulus Plan
- Cash on the sidelines

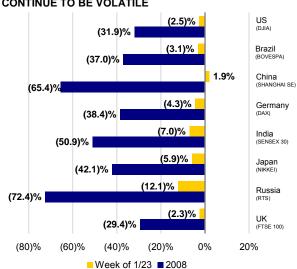
#### STOCKS REMAIN ABOVE THEIR NOVEMBER LOWS



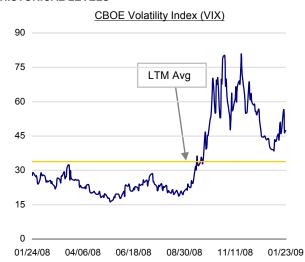
### WHILE ALL SECTORS ARE DOWN FOR THE YEAR, THEY ARE WELL ABOVE 2008 LOWS

	Week of		<b>Since 2008</b>
Sector	1/23	2008	Low
Telecom	3.1%	(31.7)%	13.6%
Energy	8.0	(33.2)	16.6
Health Care	(0.0)	(22.8)	15.8
Utilities	(0.4)	(30.0)	12.6
Technology	(0.9)	(41.3)	14.1
Materials	(2.1)	(45.0)	19.2
S&P 500	(2.1)	(36.5)	10.6
Staples	(2.2)	(16.2)	3.2
Discretionary	(4.9)	(31.7)	20.2
Real Estate	(5.9)	(46.3)	23.9
Industrials	(5.9)	(39.1)	6.0
Financials	(7.1)	(56.3)	11.6

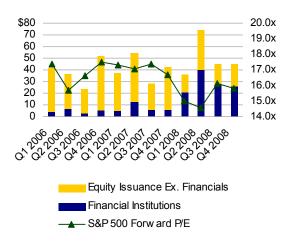
# MAJOR EQUITY MARKETS AROUND THE WORLD CONTINUE TO BE VOLATILE



# VOLATILITY HAS COME DOWN, BUT REMAINS ABOVE HISTORICAL LEVELS



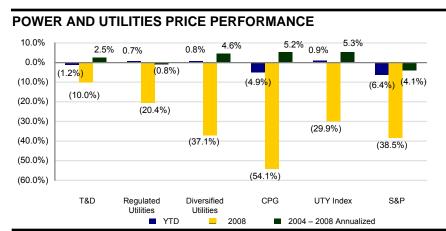
# OVERALL U.S EQUITY ISSUANCE AND S&P PERFORMANCE

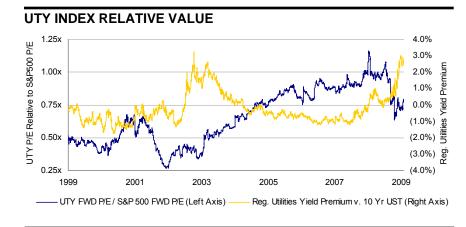


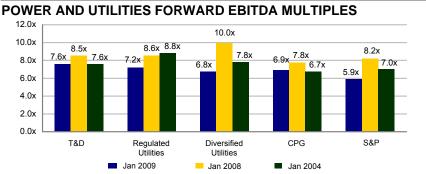


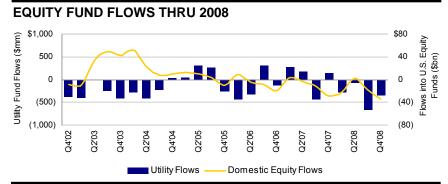


# **Utility Sector Equity Market Performance**









2008 – 2009 POWER & UTILITY EQUITY OFFERINGS (a)					
Pricing	Issuer Name	Deal Value \$	% of Market % Change Price % Change F		
Date	issuel Hame	Dear value y	Сар	Initial/Offer	Offer/Open
01/07/09	Progress Energy	469	5%	(6.2%)	0.4%
12/31/08	SCANA Corp	89	2%	0.2%	2.5%
12/02/08	Hawaiian Electric Industries Inc	115	5%	(11.1%)	1.1%
11/18/08	Central Vermont Public Service	23	10%	(12.7%)	0.1%
11/05/08	Pepco Holdings Inc	266	7%	(19.0%)	0.6%
09/18/08	Otter Tail Corp	155	14%	(24.9%)	3.7%
09/09/08	Xcel Energy Inc (b)	303	3%	(3.2%)	0.2%
05/29/08	Westar Energy Inc	146	6%	3.3%	0.9%
01/17/08	ITC Holdings Corp	280	12%	(4.0%)	0.4%
Last 25	(All Industries) Media	n 213	12.0%	(14.8%)	4.4%

RELATIVE VALUE (SECTOR MEDIANS)							
No. of			EMV / Net Income	EMV/	EV / EBITDA	Dividend	2009E Dividend
Companies Companies	Industry Sectors	EMV (\$B)	2009E	Tangible BV	2009E	Yield	Payout
6	T&D	\$24.9	13.7x	2.0x	7.6x	5.0%	69.0%
12	LDC	21.5	14.6x	1.9x	8.1x	3.8%	61.7%
30	Regulated Utility	151.5	13.4x	1.2x	7.8x	5.1%	67.0%
17	Diversified Utility	184.4	11.9x	1.6x	7.2x	4.2%	50.1%
7	Merchant / Generation	24.0	13.1x	0.8x	7.4x	NA	NA
80		\$443.5					
500	S&P 500	\$7,610.0	15.3x	-	-	2.9%	54.4%

(a) Unitil Corp, on 12/11/08, priced 2M newly issues shares in a public offering @ \$20/share to finance the acquisition of Northern utilities, which closed 12/1/08. (b) Bought Deal

Source: FactSet and Wall Street research. Note: Market data as of 1/27/09.





### 2009 Economic Forecast

#### **COMMENTARY**

- As long as mortgage credit remains unavailable and the mortgage market dysfunctional, the possibility is that housing markets will "overshoot" to the downside
- The Fed is expected to delay raising rates until the economy is back on sound footing and the economy has turned
- Maturities take center stage in 2009 as credit availability, and thus the ability to refinance, remains constrained
- For financials, issuance under various government programs expected to keep balance sheets liquid
- The biggest challenge is for high yield companies as funding remains extremely limited
- Given the underlying economic recession issuers in cyclical sectors are expected to face the most challenges compared to non-cyclicals even with similar rating
- However, for high grade issuers even with record level of spreads, the low absolute level of interest rates keeps the after tax cost of debt attractive meaning issuers will still look to tap debt financing, especially to reduce exposure to the short term debt market

#### SIGNS OF MARKET RECOVERY

- Inflation expectations have tumbled, clearing the way for the Fed's ongoing aggressive easing campaign
- CDS levels of financial companies have moderated from recent highs
- LIBOR levels have moderated and commercial paper has begun to follow suit, partially reopening the credit markets
- ◆ LBO overhang in the leveraged loan and high yield markets is essentially gone

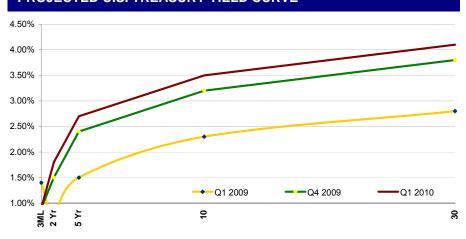
#### BAS ECONOMIC FORECASTS (a)

	2008	Latest	2009	2010	2011
U.S. Growth (Real GDP - % YOY)	1.2%	(3.8%) (Q4 '08)	(2.1%)	2.6%	3.5%
Inflation (Core CPI - % YOY)	2.3%	2.0% (Q4 '08)	1.7%	1.4%	1.0%
Unemployment Rate	5.8%	6.9% (Q4 '08)	8.2%	8.2%	7.7%
Fed Funds Rate	1.9%	0.25%	0.2%	0.8%	2.7%
10-Year Treasury Yield	3.7%	2.62%	2.8%	4.0%	5.1%
Current Account Deficit (% of GDP)	4.7%		3.9%	4.3%	4.7%
Euro : US Dollar (b)	\$1.47	\$1.28	\$1.34	\$1.33	\$1.32

#### S&P 500 FORECAST (c)

2007	2008	2009	2010
Actual	Projected	Projected	Projected
\$67.22	\$63.60	\$58.00	\$65.00
Actual	Actual	Projected	Projected
1468.4	903.3	1029.0	NA
3.7%	(38.5%)	14.0%	NA
	Actual \$67.22 Actual 1468.4	Actual         Projected           \$67.22         \$63.60           Actual         Actual           1468.4         903.3	Actual         Projected         Projected           \$67.22         \$63.60         \$58.00           Actual         Actual         Projected           1468.4         903.3         1029.0

#### PROJECTED U.S. TREASURY YIELD CURVE



- (a) Forecasts as of 1/16/09. Current prices/rates as of 1/16/09.
- (b) Exchange rates for '08, '09 and '10 represent 1Yr., 2Yr. and 3Yr. forward rates respectively. Source: Bloomberg
- (c) Bank of America Merrill Lynch Economic Research, 1/23/09.



# **Current Utility Themes**

### Recent financial market volatility forcing reassessment of strategic and financial plans with standalone CPG viability questioned

Industry Dynamics		mental capital needs and place further pressure on costs to customers and long construction period precludes many utilities from participating
Liquidity / Capital Markets	<ul> <li>Credit crisis has impaired availability of capital to all companies and Liquidity is current focal point of management and investors</li> <li>Utility and CPG stocks have moved significantly lower with overall of Spreads have widened considerably in high grade debt markets forcing issuers to reconsider spread and coupon targets, however, all in funding costs benefit from new lows for Treasuries</li> </ul>	·
Strategic Positioning	Companies continue to focus on regulated activities and rationalize diversified activities	<ul> <li>Sale of non-core assets to bolster liquidity, fund development projects or potentially return cash to investors</li> </ul>
	<ul> <li>"Inbound" X-border M&amp;A to continue when dynamics create financia</li> <li>Regulated utility M&amp;A will be challenged by regulatory and financial factors</li> </ul>	<ul> <li>al rationale (relative valuations, weak US\$) for US acquisitions</li> <li>Consolidation of CPGs accelerating as distress in capital markets threatens viability</li> </ul>
M&A	Multi-state deals will continue to be difficult to transact     Regulators will aggressively seek to retain synergies in transactions to offset rate increases     Foreign buyers and infrastructure funds interested in single state	<ul> <li>Significant cost and operating synergies in large-scale CPG consolidation</li> <li>Financial owners will sell as assets approach equilibrium value</li> </ul>



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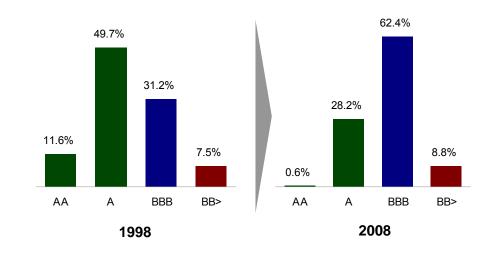


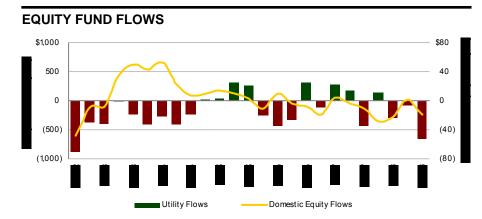
utilities with significant capital investment opportunities (e.g. -

# What are the Primary Issues on Minds of Utility Investors

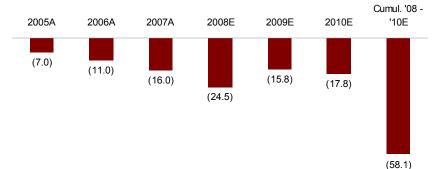
- > Liquidity profile of Utilities
- > Impact of financial crisis on utility fundamentals
  - Will regulators increase allowed returns to reflect increased capital costs (particularly during period of increasing operating costs)?
  - Will Utilities be able to access capital required to support operations and investment plans?
- > Impact of volatility of commodity cost on utilities?
- > Potential for demand destruction given economic weakness?

#### POWER & UTILITIES INDUSTRY: RELATIVE CREDIT PROFILE 1998 - 2008





### FREE CASH FLOW DEFICIT (\$BN)





# Implications of Challenged Capital Raising Environment

Recent financial market volatility has created a challenging capital raising environment: Access to capital will be dependant on taking a proactive and flexible approach to managing financial objectives and accepting the increased cost of doing business

Liquidity / Capital Planning Playbook

- Review adequacy of liquidity position under various scenarios
- Scale back/defer capital investment programs
- Drive value through consolidation and asset sales
- Adjust cost of capital and internal hurdle rates to reflect higher cost of capital
- Accessing market in "just-in-time" fashion is a recipe for trouble liquidity and access to markets can quickly disappear
  - Extend debt maturity profile through early refinancing, extension trades and pre-fundings whenever there are windows of opportunity
  - Consider multiple sources of capital (e.g. non-traditional)
- Strengthen core bank group relationships while reducing reliance on banks
  - Maintain multiple contacts within each financial partner
  - Understand the requirements for credit extension
- Assess counterparty risk
- Review capital structure in light of increased volatility and cost of capital
- Proactively anticipate rating agency concerns
- Review cash management and treasury operations

Cost of Capital Impact

- Market risk premiums have increased for both debt and equity (Increasing the cost of capital)
  - Cost of debt has increased
  - Cost of equity derived under various methodologies has increased, although CAPM is not representative of current market conditions (risk free rate, beta and equity risk premium challenges)
  - Overall cost of funding (WACC) has increased

