

Distribution:

Periodic Tariff Review Methodology

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WACC

PARAMETERS	Third Periodic Tariff Review 2015 to 2017 (2011 to 2014)	
Capital structure: (Debt / Debt+Equity)	55%	48.76%
Risk free rate (rf)	4.87%	5.64%
Expected market return (r _m)	10.96%	13.20%
Average levered beta (β)	0,74	0,70
Country risk premium (r _B)	4.25%	2.62%
Credit risk premium (r _c)	2.14%	3.37%
Nominal cost of own capital (K _e)	13.43%	13.57%
Nominal cost of third party capital (K _d)	11.26%	11.62%
Real cost of own capital after taxes (34%)	10.72%	10.90%
Real cost of third party capital after taxes (34%)	4.86%	5.14%
Real WACC after taxes	7.50% p.a.	8.09% p.a.





WACC required to offset NPV negative effect of Cemig D investments

	Exclusion:	WACC:
Investments made during 3rd Tariff Review Cycle	8%	10%
Valuation using Current Investments Rule made during 4th Tariff Review Cycle (Nov. 2012 – Apr. 2015)	(20)	12%
Valuation using 'Price Bank' Aneel Proposal for 3rd Phase Public Hearing 23/2014 Investments made during 4th Tariff Review Cycle (Nov. 2012 – Apr. 2015)	4%	9%





ASSET BASE REMUNERATION (BRR)

3rd Public Hearing Phase 23/2014

Aneel Proposal:

 Adoption of the regulatory values for items like COM (Minor Components) and CA (Additional Costs) that comprise investments.







ASSET BASE REMUNERATION (BRR)

3rd Public Hearing Phase 23/2014

Nonstandardization of inspection

Need for more transparency in process

ANEEL's reasons

Unpredictability of results



Information uncertainty

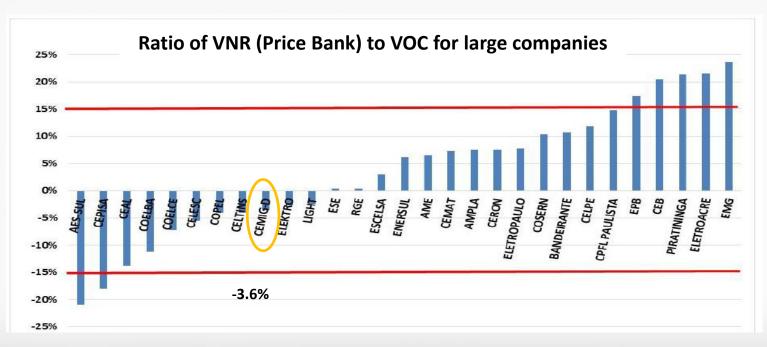
There are no comparative analysis between companies



ASSET BASE REMUNERATION (BRR)

3rd Public Hearing Phase 23/2014

Aneel Price Bank vs. Initial Book Value [VOC]





Source: Aneel Technical Note 071/2015 SGT of April 2, 2015.



TECHNICAL LOSSES

Public Hearing 26/2014

3rd Tariff Review Cycle Method

Regulatory Technical Losses



Single statistical model

Energy Balance

General data table



Does not reflect the real technical losses of the distributors' electricity system

4th Tariff Review Cycle Method

Regulatory Technical Losses



Network Simulation
Metering campaign
Geographical database



Tends to approximate the technical losses to the distributors' electricity system





NON-TECHNICAL LOSSES

3rd Tariff Review Cycle Method

12 econometric models to calculate the complexity index

Two complexity groups

Defining the loss of speed reduction per cluster for each complexity group

New methodology

3 econometric models to calculate complexity index

Single complexity group

Defining the loss of speed reduction per <u>new</u> clusters using a single complexity group



Starting point for Cemig D: maximum value of 7.50% and lower value between regulatory target set by the 3rd Tariff Review Cycle (7.63%) and the average of non-technical losses in past 4 years.



CEMIG D: DEBT PROFILE

Maturities timetable – Average tenor: 3.4 years

Total net debt: R\$ 5.8 billion

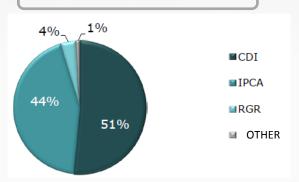


Average real cost of debt – %



Source: www.cemig.com.br





Net debt

Stockholders'

Leverage – %





OPERATIONAL COSTS

<u>CYCLE</u>		Lower limit	Middle band	Upper limit
3rd Tariff Review Cycle	Efficiency	48%	58%	68%
4th Tariff Revew Cycle	Efficiency	65%	69%	73%
	Normalized Efficiency	85%	91%	96%





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