20th Annual Cemig-APIMEC Meeting



A new generation in generation





The Company's history

Corporate profile

Growth strategy







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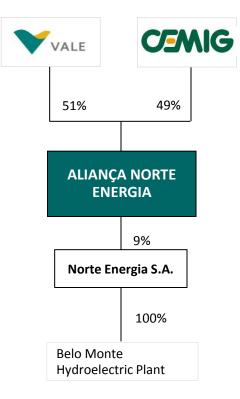
Aliança Energia and Aliança Norte Energia

CEMIG VALE Vale assets Cemig Assets Igarapava 38.15% Igarapava 14.50% Porto Estrela 33.33% Porto Estrela 33.33% Funil 51.0% 49.0% Funil Candonga 50.0% Aimorés 49.0% Aimorés 51.0% Capim Branco I 26.48% Capim Branco I 60.89% Capim Branco II 26.48% Capim Branco II 60.89% 55% 45% **ΛLIΛΝ** Aimorés 100% Funil 100% Capim Branco I 87.4% Capim Branco II 87.4% Porto Estrela 66.7% 52.6% Igarapava Candonga 50.0%

Alianca Energia S.A.

Aliança Norte Energia S.A.

ΛLIΛΝ



Aliança Energia and Aliança Norte Energia

Creation of Aliança Energia S.A.

- Better realization of potential assets held in consortia by the shareholders
- Private vehicle focus on energy generation sector growth
- Combining operational, financial and project management experience of shareholders

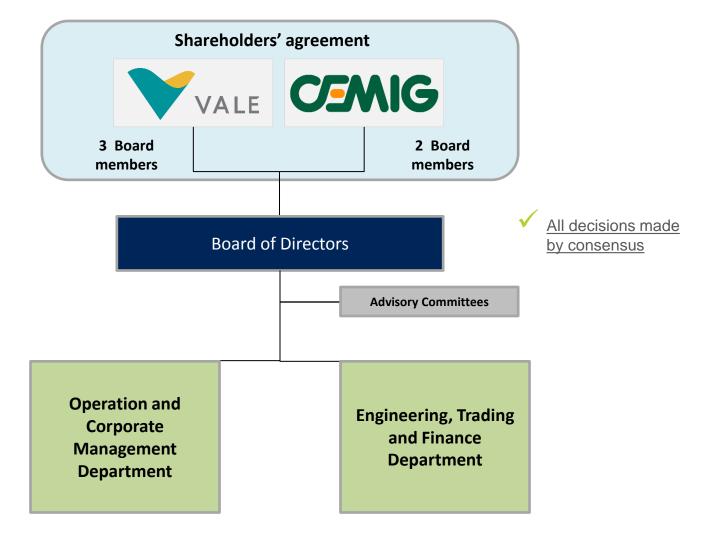
Focus on adding value to shareholders

Creation of Aliança Norte Energia S.A.

ΛLΙΛΝ

Specific and private vehicle designed solely for investments in the Belo Monte Hydroelectric Plant

(1) Technical Note by Norte Energia of April 2015. All asset subscriptions will be completed in 2015.



ΛLIΛΝ





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Hydroelectric plants

ΛLΙΛΝ

Seven hydroelectric plants fully operational in portfolio

	Installed capacity (MW)	Assured energy (MW average)	ALIANÇA				
Hydro plants			Interest %	Installed capacity MW	Assured energy (MW average)	Concession expiration	Location
1) Aimorés	330	172	100.0%	330	172	Dec. 2035	Aimorés, MG (River Doce)
2) Funil	180	89	100.0%	180	89	Dec. 2035	Perdões, MG (<i>Rio Grande</i>)
3) Capim Branco I	240	155	87.4%	210	135	Aug. 2036	Araguari, MG (Araguari River)
4) Capim Branco II	210	131	87.4%	184	114	Aug. 2036	Araguari, MG (Araguari River)
5) Porto Estrela	112	56	66.7%	75	37	Jul. 2032	Joanésia, MG (St. Antônio River)
6) Igarapava	210	136	52.6%	110	72	May 2025	Conquista, MG (Rio Grande)
7) Candonga	140	65	50.0%	70	32	May 2035	Rio Doce, MG (<i>River Doce</i>)
TOTAL	1,422	803	-	13158	652	-	-

Locations:



3

6

Highlights



Annual revenue*	R\$ 1 billion
Operational cash flow – Ebitda*	R\$ 600 million
Hydro plants in full operation	#7
Installed capacity	1,158 MW
Assured energy	652 MW average
% of output sold long-term	100%

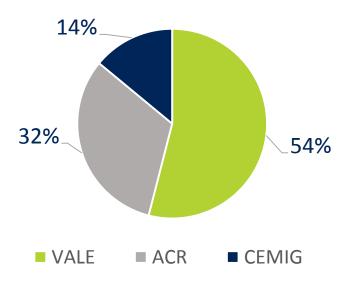
* Projected amounts.

Economic and financial profile

Financial position supports growth strategy

- Solid and stable annual revenue: R\$ 1 billion
- No financial leverage
- Management results
- > Growth focused on value generation

Electricity sales:





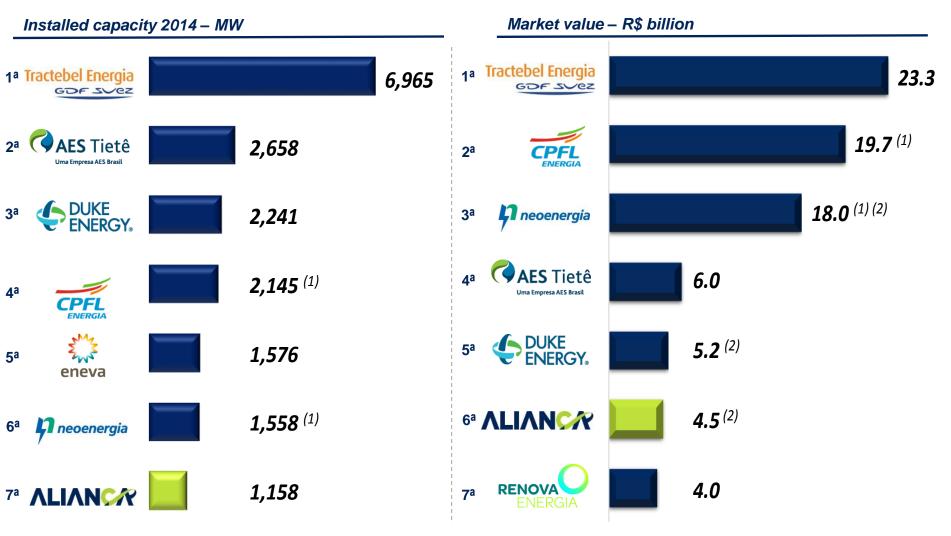
ΛLIΛΝ

- Long term electricity contracts
 - Free Market → Vale and Cemig

Market positioning

ΛLΙΛΝ

Aliança is currently Brazil's 7th largest private-sector generator by installed capacity, and the 6th largest by market value, a prominent position in the country's electricity sector.



(1) Integrated companies.

(2) Estimated market value.





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Focus on acquisitions and new projects

Acquisitions

> Adding Value through acquisitions

> Opportunities to invest in various segments

- Hydroelectric
- Thermoelectric
- Wind power



New projects

- Sale of energy supply in the Free Market
- > Participation in new energy supply auctions

ΛLIΛΝ

Installed capacity expected performance (MW) **ALIAN**

Aliança's installed capacity will reach 4,158 MW in 2020, considering increases of 500 MW in installed capacity per year



ALIANC

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Distribution:

Periodic Tariff Review Methodology

Maura Galuppo Botelho Martins















WACC

PARAMETERS	Third Periodic Tariff Review (2011 to 2014)	2015 to 2017
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



Need for more transparency in process

ANEEL's reasons

Unpredictability of results

Information uncertainty

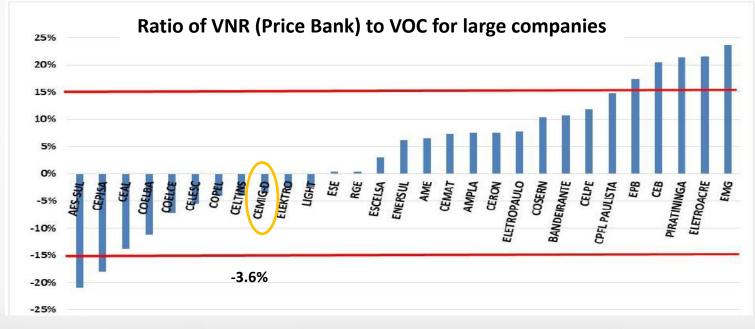
A Melhor Energia do Brasil.

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]



A Melhor Energia do Brasil.

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



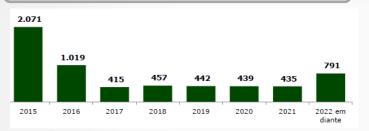
Starting point for Cemig D: maximum value of 7.50% and lower value between regulatory target set by the 3rd Tariff Review Cycle (7.63%) and the average of non-technical losses in past 4 years.



CEMIG D: DEBT PROFILE

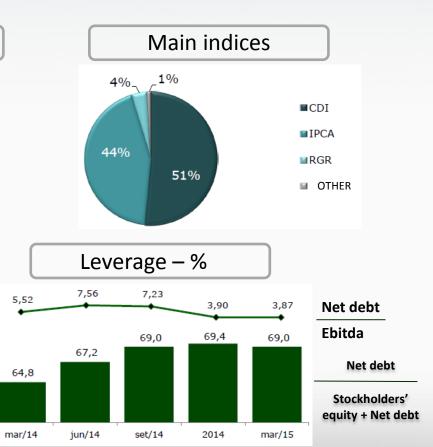
Maturities timetable – Average tenor: 3.4 years

Total net debt: R\$ 5.8 billion











OPERATIONAL COSTS

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



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CEMIG D

Danilo Gusmão Araújo









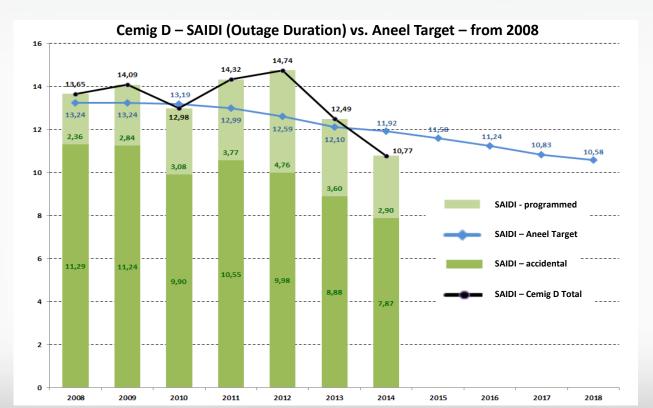






Electricity system performance

Outage duration indicator (SAIFI) is best in past few years, with strong reduction in accidental outages

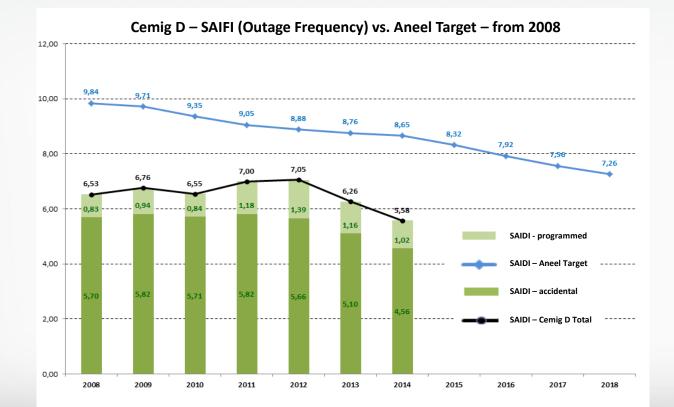






Electricity system performance

Outage Frequency (SAIFI) is also best in past few years

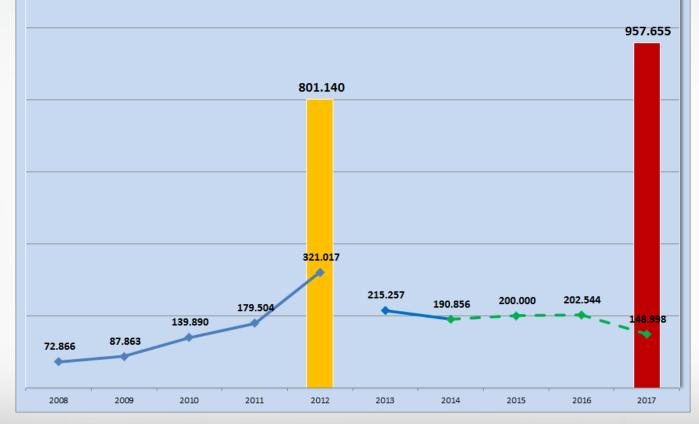






Actions taken to improve performance

Investments in O&M – R\$ mn



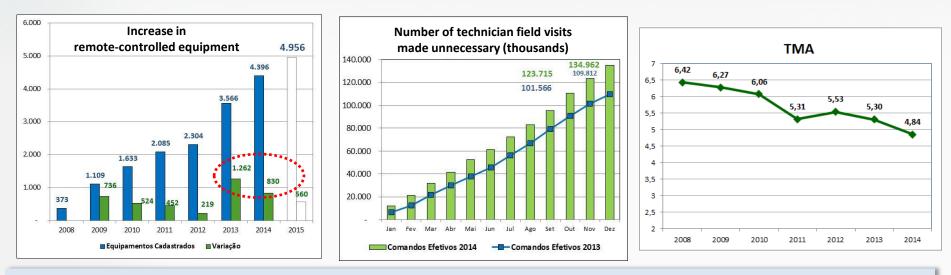




Actions taken to improve performance

More automated equipment means fewer field visits:

- lower Average Attendance Time (TMA) for adverse events



- In 2012, there were 2,304 remote controlled equipment. Between 2013 and 2014 this number had almost doubled, adding 2092 units. Projected target for end-2015 are 5,000 remote controlled units.
- 90.8% commands active reduced 134,962 field visits by Cemig personnel.
- Estimate for total travel costs savings for 2014 were R\$ 16.7mn, while in 2013 it was R\$ 13.6mn.
- Average time to handle network problems was reduced by 25% since 2008.



Action taken to improve performance Dual path supply to municipal centers with automated transfer Substation 1 Substation 2





Actions taken to improve performance

R\$ 60mn were invested to acquire 15 mobile substations





- Quick service in the event of failures
- Increase in preventive maintenance to increase reliability
- Additional availability to transform





Actions taken to improve performance

R\$ 77.5mn invested to modernize underground distribution network in Belo Horizonte, and in rest of Minas Gerais

- 237 kms of cable replaced
- 177 switches replaced and automated
- 8 transformers replaced
- By 2017, additional completed: 117 km of cable 83 transformers 152 switches







Global Continuity Performance (DGC) Aneel ranking

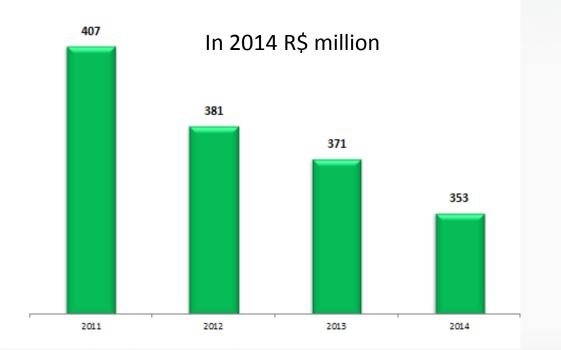
- Cemig D ranked 7th in 2014 Aneel ranking
- Moved up 10 positions from the previous year
- Ranked in First Quartile Best Performance







Opex in O&M







Impact on revenue

Improvement in electricity system contributed to significant revenue gains



Significant reduction in compensation fee due to non-compliance with continuity indicators

Table 1 – Component Q of X Factor

DEC _I /FEC _I	General rule	Best performances	Worst performances	
Over 20%	1.00%	0.50%	1.00%	
17% to 20%	0.95%	0.47%	0.95%	
14% to 17%	0.79%	0.40%	0.79%	
11% to 14%	0.64%	0.32%	0.64%	
8% to 11%	0.49%	0.24%	0.49%	
5% to 8%	0.33%	0.17%	0.33%	
-5% to +5%	0.00%	0.00%	0.00%	
–8% to –5%	-0.33%	-0.33%	-0.17%	
-11% to -8%	-0.49%	-0.49%	-0.24%	
-14% to -11%	-0.64%	-0.64%	-0.32%	
-17% to -14%	-0.79%	-0.79%	-0.40%	
-20% to -17%	-0.95%	-0.95%	-0.47%	
Below –20%	-1.00%	-1.00%	-0.50%	

Positive effect on X Factor, representing increase of R\$ 40mn in the Portion B during last 2 tariff adjustments



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