

# **CEMIG D**

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# 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**







#### Investments in O&M – R\$ mn







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





#### 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





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 7<sup>th</sup> 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 <sub>I</sub> /FEC <sub>I</sub>	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



#### XX Encontro Anual CEMIG-APIMEC

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