

ENERGY CO OF MINAS GERAIS

Form 6-K

June 09, 2010

[Table of Contents](#)

## **FORM 6-K**

# **SECURITIES AND EXCHANGE COMMISSION**

WASHINGTON, D.C. 20549

### **REPORT OF FOREIGN PRIVATE ISSUER PURSUANT TO RULE 13a-16 OR 15d-16 OF THE SECURITIES EXCHANGE ACT OF 1934**

**For the month of June 2010**

**Commission File Number 1-15224**

## **Energy Company of Minas Gerais**

(Translation of Registrant's Name Into English)

**Avenida Barbacena, 1200**

**30190-131 Belo Horizonte, Minas Gerais, Brazil**

(Address of Principal Executive Offices)

Indicate by check mark whether the registrant files or will file annual reports under cover of Form 20-F or Form 40-F.

Edgar Filing: ENERGY CO OF MINAS GERAIS - Form 6-K

Form 20-F  Form 40-F

Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(1):

Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(7):

Indicate by check mark whether by furnishing the information contained in this Form, the registrant is also thereby furnishing the information to the Commission pursuant to Rule 12g3-2(b) under the Securities Exchange Act of 1934.

Yes  No

If  Yes is marked, indicate below the file number assigned to the registrant in connection with Rule 12g3-2(b): N/A

---

Table of Contents

Index

| <b>Item</b> | <b>Description of Item</b>                                                                                                                       |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| <u>1.</u>   | <u>Summary of Principal Decisions of the 106th Meeting of the Board of Directors, Cemig Distribuição S.A., May 12, 2010</u>                      |
| <u>2.</u>   | <u>Summary of Principal Decisions of the 113th Meeting of the Board of Directors, Cemig Geração e Transmissão S.A., May 12, 2010</u>             |
| <u>3.</u>   | <u>Carbon Disclosure Project 2010, Companhia Energética de Minas Gerais – CEMIG</u>                                                              |
| <u>4.</u>   | <u>Summary of Principal Decisions of the 107th Meeting of the Board of Directors, Cemig Distribuição S.A., May 26, 2010</u>                      |
| <u>5.</u>   | <u>Summary of Principal Decisions of the 114th Meeting of the Board of Directors, Cemig Geração e Transmissão S.A., May 26, 2010</u>             |
| <u>6.</u>   | <u>Summary of Principal Decisions of the 485th Meeting of the Board of Directors, Companhia Energética de Minas Gerais – CEMIG, May 26, 2010</u> |
| <u>7.</u>   | <u>Reply to CVM Inquiry CVM/SEP/GEA-1 N°. 221/2010, of May 25, 2010, Companhia Energética de Minas Gerais – CEMIG, May 26, 2010</u>              |
| <u>8.</u>   | <u>Presentation of the Chief Officer for Finance, Investor Relations and Control of Holdings, XV Annual Meeting, CEMIG APIMEC</u>                |
| <u>9.</u>   | <u>Presentation, XV Annual Meeting, CEMIG APIMEC, CEMIG GT: Supply and Demand Balance and National Grid &amp; Financial Guidance</u>             |
| <u>10.</u>  | <u>Market Announcement, Settlement Agreement Reached with Rima Industrial S.A., Companhia Energética de Minas Gerais CEMIG, May 31, 2010</u>     |
| <u>11.</u>  | <u>Summary of Minutes of the 483rd Meeting of the Board of Directors, Companhia Energética de Minas Gerais – CEMIG, April 15, 2010</u>           |
| <u>12.</u>  | <u>Summary of Minutes of the 104th Meeting of the Board of Directors, Cemig Distribuição S.A., April 15, 2010</u>                                |
| <u>13.</u>  | <u>Summary of Minutes of the 111th Meeting of the Board of Directors, Cemig Geração e Transmissão S.A., April 15, 2010</u>                       |

Table of Contents

14. Summary of Principal Decisions of the 108th Meeting of the Board of Directors, Cemig Distribuição S.A., June 2, 2010

Forward-Looking Statements

This report contains statements about expected future events and financial results that are forward-looking and subject to risks and uncertainties. Actual results could differ materially from those predicted in such forward-looking statements. Factors which may cause actual results to differ materially from those discussed herein include those risk factors set forth in our most recent Annual Report on Form 20-F filed with the Securities and Exchange Commission. CEMIG undertakes no obligation to revise these forward-looking statements to reflect events or circumstances after the date hereof, and claims the protection of the safe harbor for forward-looking statements contained in the Private Securities Litigation Reform Act of 1995.

Table of Contents

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

COMPANHIA ENERGETICA DE MINAS GERAIS CEMIG

By: /s/ Luiz Fernando Rolla  
Name: Luiz Fernando Rolla  
Title: Chief Financial Officer, Investor Relations  
Officer and Control of Holdings Officer

Date: June 9, 2010

Table of Contents

|    |                                                                                                                      |
|----|----------------------------------------------------------------------------------------------------------------------|
| 1. | Summary of Principal Decisions of the 106th Meeting of the Board of Directors, Cemig Distribuição S.A., May 12, 2010 |
|----|----------------------------------------------------------------------------------------------------------------------|

Table of Contents

**CEMIG DISTRIBUIÇÃO S.A.**

**LISTED COMPANY**

**CNPJ 06.981.180/0001-16**

**BOARD OF DIRECTORS**

**SUMMARY OF PRINCIPAL DECISIONS**

At its 106th meeting, held on May 12, 2010, the Board of Directors of Cemig Distribuição S.A. decided the following matter:

- Signing of Court settlement.

Av. Barbacena 1200 Santo Agostinho 30190-131 Belo Horizonte, MG Brazil Tel.: +55 31 3506-5024 Fax +55 31 3506-5025

**This text is a translation, provided for information only. The original text in Portuguese is the legally valid version.**

Table of Contents

|    |                                                                                                                                  |
|----|----------------------------------------------------------------------------------------------------------------------------------|
| 2. | Summary of Principal Decisions of the 113th Meeting of the Board of Directors, Cemig<br>Geração e Transmissão S.A., May 12, 2010 |
|----|----------------------------------------------------------------------------------------------------------------------------------|



Table of Contents

**CEMIG GERAÇÃO E TRANSMISSÃO S.A.**

**LISTED COMPANY**

**CNPJ 06.981.176/0001-58**

**NIRE 31300020550**

**BOARD OF DIRECTORS**

**SUMMARY OF PRINCIPAL DECISIONS**

At its 113rd meeting, held on May 12, 2010, the Board of Directors of Cemig Geração e Transmissão S.A. decided the following matters:

- Signing of Court settlement.

Av. Barbacena 1200 Santo Agostinho 30190-131 Belo Horizonte, MG Brazil Tel.: +55 31 3506-5024 Fax +55 31 3506-5025

**This text is a translation, provided for information only. The original text in Portuguese is the legally valid version.**

Table of Contents

3. Carbon Disclosure Project 2010, Companhia Energética de Minas Gerais CEMIG

Table of Contents

**Carbon**

**Disclosure**

**Project**

**2010**

Companhia Energética  
de Minas Gerais

**English Version**

Table of Contents

**Content**

|                                                                            |           |
|----------------------------------------------------------------------------|-----------|
| <b><u>INTRODUCTION</u></b>                                                 | <b>13</b> |
| <u>0.1 Introduction</u>                                                    | 13        |
| <u>0.2 Reporting Year</u>                                                  | 14        |
| <u>0.3 Are you participating in the Walmart Sustainability Assessment?</u> | 14        |
| <u>0.4 Modules</u>                                                         | 14        |
| <u>0.5 Country list configuration</u>                                      | 14        |
| <b><u>GOVERNANCE</u></b>                                                   | <b>15</b> |
| <u>1. Group and Individual Responsibility: (CDP 2009 Q25)</u>              | 15        |
| <b><u>RISKS AND OPPORTUNITIES</u></b>                                      | <b>17</b> |
| <u>2. Process to Identify Risks and Opportunities: (CDP 2009 Q1-6)</u>     | 17        |
| <u>3. Regulatory Risks: (CDP 2009 Q1)</u>                                  | 17        |
| <u>4. Physical Risks: (CDP 2009 Q2)</u>                                    | 19        |
| <u>5. Other Risks: (CDP 2009 Q3)</u>                                       | 21        |
| <u>6. Regulatory Opportunities: (CDP 2009 Q4)</u>                          | 23        |
| <u>7. Physical Opportunities: (CDP 2009 Q5)</u>                            | 25        |
| <u>8. Other Opportunities: (CDP 2009 Q6)</u>                               | 26        |
| <b><u>STRATEGY</u></b>                                                     | <b>31</b> |
| <u>9. Strategy: (New for CDP 2010)</u>                                     | 31        |
| <b><u>GHG EMISSIONS ACCOUNTING, ENERGY AND FUEL USE, AND TRADING</u></b>   | <b>36</b> |
| <u>10. Reporting Boundary: (CDP 2009 Q8)</u>                               | 36        |
| <u>11. Methodology: (CDP 2009 Q9)</u>                                      | 36        |
| <u>12. Scope 1 Direct GHG Emissions: (CDP 2009 Q10)</u>                    | 37        |
| <u>13. Scope 2 Indirect GHG Emissions: (CDP 2009 Q11)</u>                  | 38        |

Edgar Filing: ENERGY CO OF MINAS GERAIS - Form 6-K

|                                                                                                           |    |
|-----------------------------------------------------------------------------------------------------------|----|
| <u>14. Contractual Arrangements Supporting Particular Types of Electricity Generation: (CDP 2009 Q12)</u> | 39 |
| <u>15. Scope 3 Other Indirect GHG Emissions: (CDP 2009 Q13)</u>                                           | 40 |
| <u>16. Emissions Avoided Through Use of Goods and Services: (CDP 2009 Q14)</u>                            | 40 |
| <u>17. Carbon Dioxide Emissions from Biologically Sequestered Carbon: (CDP 2009 Q15)</u>                  | 41 |
| <u>18. Emissions Intensity: (CDP 2009 Q16)</u>                                                            | 42 |

Table of Contents

|                                                                    |           |
|--------------------------------------------------------------------|-----------|
| <u>19. Emissions History: (CDP 2009 Q17)</u>                       | 42        |
| <u>20. External Verification/ Assurance: (CDP 2009 Q18)</u>        | 42        |
| <u>21. Emissions Trading and Offsetting: (CDP 2009 Q21 and 22)</u> | 43        |
| <b><u>CLIMATE CHANGE COMMUNICATIONS</u></b>                        | <b>44</b> |
| <u>22. Climate Change Communications: (CDP 2009 Q27)</u>           | 44        |

Table of Contents

**Introduction**

**0.1 Introduction**

Companhia Energética de Minas Gerais Cemig is the largest integrated energy company in the country and was founded in 1952 by the then governor of Minas Gerais, Juscelino Kubitschek de Oliveira. The Cemig Group, comprised of 62 companies, operates in 19 states in the Brazilian energy sector, with a greater focus on the generation, transmission and distribution of electrical energy. Cemig has 65 power plants with a total installed capacity of 6,716 MW, with 98.02% of this capacity coming from renewable sources. It also has 7.5 thousand km of transmission lines and 460 thousand kilometers of distribution lines serving more than 6.8 million customers in 774 municipalities. With these numbers, the group stands as third largest power generator, the third largest group in energy transmission and the largest group in distribution.

On December 31st, 2009, accounting for Cemig Holding, Cemig Distribuição and Cemig Geração & Transmissão altogether, the Company had 9,746 employees. The group's consolidated operating revenues reached R\$ 17.4 billion in 2009. Cemig holds 12% of the electrical energy market in Brazil (both captive and free markets), positioning itself as a major force in the consolidation of the Brazilian electric sector. Due to its commitment to the principles of environmental responsibility and to its consistency and technical excellence, Cemig is recognized internationally as a benchmark in sustainability.

Cemig's vision, mission and values are the pillars that support the Company's affairs, direct its strategic guidelines and its development. In addition, they establish the premises for its management system, respecting and taking into account the needs of stakeholders.

**Vision**

To be, in 2020, one of the two largest energy groups in Brazil in terms of market value, with a significant presence in the Americas and to be a world leader in sustainability in the sector.

**Mission**

To perform activities in the energy sector with profitability, quality and social responsibility.

**Values**

- Integrity to honor commitments and act with transparency and honesty.

## Edgar Filing: ENERGY CO OF MINAS GERAIS - Form 6-K

- Ethics to do good. To respect people's dignity.
- Wealth to generate goods and services for the welfare and prosperity of customers, shareholders, employees, suppliers and society.
- Social responsibility to supply safe, clean, reliable and cost-effective energy; contributing to economic and social development.
- Enthusiasm at work to act with commitment, creativity and dedication.
- Entrepreneurial spirit to show initiative, to dare and to decide, observing the Company's guidelines.

Cemig is a mixed economy company controlled by the government of Minas Gerais, which owns 51% of its common stock. Besides the controller, the Company has 116,000 shareholders in 44 countries, and shares listed on the São Paulo Stock Exchange - Bovespa, in New York the New York Stock Exchange - NYSE and on the Madrid Stock Market Latin American Latibex.

Cemig was selected in 2009, for the tenth consecutive year, to be part of the select list of companies in the DJSI World - Dow Jones Sustainability Index. The Company has been part of the index since its creation in 1999 and is the only company in the Latin American electric sector to be



Table of Contents

part of this Index. In these ten consecutive years of participation in the Dow Jones Index, Cemig was considered a world leader in the electric sector in the 2005/2006 periods and a world leader in the utilities supersector in 2009/2010 and 2007/2008. The utilities supersector encompasses the companies that provide electric energy services, natural gas distribution, sanitation and other public utility services. This leadership consolidates the Cemig Group's commitment to corporate sustainability. For the fifth consecutive time, Cemig was selected to be part of the Corporate Sustainability Index portfolio maintained by BOVESPA, the São Paulo Stock Exchange, for the period from December 2009 to November 2010. This Index reflects the return on a portfolio composed of shares of companies with a recognized commitment to social responsibility and sustainability in the Brazilian corporate environment. Cemig has been included in this Index since it was created in 2005.

Cemig was awarded the status of Prime by Oekom Research, a sustainability rating agency headquartered in Germany. With the Prime classification, Cemig became eligible to receive investments from institutions that take the German agency's criteria into consideration, which means having access to approximately 90 billion Euros. Cemig is the only company in the Brazilian utility sector ever to be classified as Prime by Oekom.

In November of 2009, the National Conservation and Rational Use of Energy Award was presented to Cemig by the Ministry of Mines and Energy. This Award recognizes the Company's important contribution towards sustainable development by means of the implementation of electric energy efficiency and conservation programs in the country.

**0.2 Reporting Year**

01/01/2009 to 31/12/2009

**0.3 Are you participating in the Walmart Sustainability Assessment?**

No

**0.4 Modules**

Electrical

**0.5 Country list configuration**

Brazil



Table of Contents

**Governance**

**1. Group and Individual Responsibility: (CDP 2009 Q25)**

1.1 Where is the highest level of responsibility for climate change within your company?

(x) Governance is at the board committee or other executive body level

(x) Sub-set of the board: Choose this value if individual board members form a sub-group that is responsible for climate change in the company;

*If it is at board committee or other executive body level:*

1.2 What is the mechanism by which the board committee or other executive body reviews the company's progress and status regarding climate change?

Cemig reviews its performance, risks and opportunities related to climate change by means of the establishment of Workgroups directed towards specific subjects. The first Workgroup related to climate issues was created in December of 2006, with the purpose of conducting an analysis of the Clean Development Mechanism - CDM and its opportunities for Cemig. In July of 2008 the Energy Generation Climate-Related Strategy Workgroup was created with the objective of developing an Energy Generation Climate-Related Strategy for Cemig, in view of the perspectives of alterations in the generation matrix in the next few years, considering the expected alterations in emissions of greenhouse gases resulting from CEMIG's generation matrix, defining the initiatives to work towards a more sustainable strategy, considering the Company's reality and the available generation sources.

In organizational terms, Cemig's Executive Board is constituted of 9 Executive Officers, elected by the Board of Directors. In the Company's Bylaws, it has been defined that one of attributions of the **Vice-President** is to propose policies and directives for sustainability, social responsibility, the environment and improvements in quality, including the coordination of social and environmental projects of a strategic and corporate nature, such as projects related to climate change.

In addition to the Deputy CEO, Cemig has the following areas whose attributions relate directly to the Company's climate change actions:

## Edgar Filing: ENERGY CO OF MINAS GERAIS - Form 6-K

- **Executive Trading Office** has the attribution to manage the commercialization, through interaction with the Executive New Business Development Office, of the Company's carbon credits.
- **Executive New Business Development Office** has the attribution to undertake the prospection and analysis of business opportunities related to taking advantage of opportunities related to carbon credits
- **New Business Management Office** has the attribution to structure and format the model for obtaining, commercializing and disseminating business opportunities related to taking advantage of opportunities related to carbon credits
- **SHPP Projects and other Alternative Sources of Energy Management Office** has the attribution to structure and format the model for obtaining, commercializing and disseminating business opportunities related to taking advantage of opportunities related to carbon credits.

*If it is at a lower level:*

1.3 Please explain how overall responsibility for climate change is managed within your company.

Not Applicable

Table of Contents

**Individual Performance: (CDP 2009 Q26)**

1.4 Do you provide incentives for the management of climate change issues, including the attainment of greenhouse gas (GHG) targets?

No

*If so,*

1.5 Please complete the table.

**Who is entitled to benefit from those incentives?**

Not Applicable

**The type of incentives**

Not Applicable

Table of Contents

**Risks and Opportunities**

**2. Process to Identify Risks and Opportunities: (CDP 2009 Q1-6)**

2.1 Describe your company's process for identifying significant risks and/or opportunities from climate change and assessing the degree to which they could affect your business, including the financial implications.

Cemig evaluates the risks and opportunities related to climate change by means of the establishment of Workgroups, as is the case with the risks and opportunities related to climate change. The risks inherent to Cemig's corporate activities are evaluated in accordance with their probability of occurrence and by their impact on the various businesses in the value chain, mainly considering the perspectives of alterations in the electric energy generation matrix in the next few years.

In order to make Risk Management possible, Cemig has established strategic control indices aimed at reducing the financial, environmental and social exposure and the tangible and intangible impacts of these risks.

In order to identify the opportunities related to climate change, Cemig created a workgroup that identified opportunities for the development of Clean Development Mechanism (CDM) projects and also developed an analysis tool for evaluating CDM projects for each new project to be executed by the Company. This group conducted a diagnosis to identify which projects already implemented, under development or in the study stage fit into and are eligible for the CDM and listed all the potential generation of Carbon Credits for Cemig.

Each project analyzed underwent the following stages: information collection, feasibility assessment and description of technical and financial characteristics. This was done to identify the eligibility for the CDM and to measure the potential for generating Carbon Credits (CERs (Certified Emission Reductions)).

As described in question 1.2, Cemig has structured two areas responsible for CDM projects: the New Business Management Office and the Wholesale Energy Purchase and Sales Management Office. These areas have attributions related to prospecting projects and analyzing business opportunities involving carbon credits and their commercialization.

**3. Regulatory Risks: (CDP 2009 Q1)**

3.1 Do current and/or anticipated regulatory requirements related to climate change present significant risks to your company?

Yes

3.2 What are the current and/or anticipated significant regulatory risks related to climate change and the associated countries/regions and timescale?

| Risk                                                  | Region/Country | Timescale in years | Comment |
|-------------------------------------------------------|----------------|--------------------|---------|
| International agreements                              | Brazil         | 0 5 years          |         |
| Carbon taxes                                          | Brazil         | 0 5 years          |         |
| Voluntary agreements                                  | Brazil         | 0 5 years          |         |
| General environmental regulations, including planning | Brazil         | 0 5 years          |         |

Table of Contents

3.3 Describe the ways in which the identified risks affect or could affect your business and your value chain.

Cemig recognizes the regulatory risks resulting from climate change and identifies political-regulatory mitigation measures focused on carbon tax issues, regulation and emissions trading as the main consequences. The Company also considers that these regulatory measures will multiply at an exponential rate in the medium and long term, in order to overcome the economic losses resulting from climate change, converging with Nicholas Stern's report "The Economics of Climate Change", which deals with the economic impacts of global warming.

With respect to international and/or voluntary agreements, Cemig, through its management, understands that its exposure to these risks, within international scopes, may be considered low in the short term, as the majority of its activities are currently concentrated in Brazil. It should be noted that Brazil does not belong to Annex 1 of the Kyoto Protocol and, therefore, does not have obligatory Greenhouse Gas (GHG) reduction goals until 2012. However, Cemig believes that after the expiration of the Kyoto Protocol (Post 2012) new agreements may be signed, in which reduction targets may be defined for non-Annex 1 countries or sector goals for GHG emission reductions may be established.

Regarding environmental regulations, the Company also recognizes the regulatory risks related to domestic norms that establish the need to invest in mitigation measures for activities that emit high levels of carbon in the generation of energy, such as the utilization of thermoelectric plants. These measures will become applicable to the energy generation sector, which will be responsible for 40% of total global emissions in the year 2100, according to the B2 scenario of the Intergovernmental Panel on Climate Change - IPCC. It is worth noting that these possible regulations will have a low impact on Cemig, as 98% of its energy generation capacity comes from renewable sources.

3.4 Are there financial implications associated with the identified risks?

Yes

3.5 Please describe them.

This information is strategic and confidential and cannot be released.

3.6 Describe any actions the company has taken or plans to take to manage or adapt to the risks that have been identified, including the costs of actions.

Cemig's main action aimed at minimizing regulatory risks is the maintenance of an energy matrix primarily comprised of renewable sources. In 2009 Cemig acquired a 49% equity stake in 3 wind farms in the state of Ceará with a total installed capacity of 99.6 MW and is investing in the construction of 2 more Hydroelectric plants and 6 SHPPs (small hydropower plants), which together will have a total installed capacity of 406 MW (considering Cemig's equity stake in the enterprises).



Cemig is working to deal with these risks in advance by implementing preventive measures in different scopes, such as the calculation of its GHG emissions since 2004, in addition to actions aimed at reducing its emissions. The Company also invests in mitigation measures by means of energy efficiency programs.

In the monitoring process for some identified regulatory risks, in addition to mitigation actions, the Company also maintains teams active in regulatory forums in the areas of water (Water Resource Councils, Basin Committees and Agencies) and Energy (Regulatory agencies and associations of

Table of Contents

companies in the electric sector), in addition to participating in forums and workgroups, among which are the State of Minas Gerais Climate Change Forum and the Energy and Climate Change Technical Chamber – CTCLima.

*If a company selects 'No' in question 3.1:*

3.7 Please explain why you do not consider that your company to be exposed to significant regulatory risks – current or anticipated.

Not Applicable

*If a company selects 'Don't know' in question 3.1:*

3.8 Please explain why not

Not Applicable

**4. Physical Risks: (CDP 2009 Q2)**

4.1 Do current and/or anticipated physical impacts of climate change present significant risks to your company?

Yes

4.2 What are the current and/or anticipated significant physical risks, and their associated countries/ regions and timescales?

| Risk                                           | Region/Country | Timescale in years | Comment |
|------------------------------------------------|----------------|--------------------|---------|
| Changes in precipitation patterns              | Brazil         | 21 – 50 years      |         |
| Changes in frequency of extreme weather events | Brazil         | 0 – 5 years        |         |
| Uncertainty of physical risks                  | Brazil         | 6 – 10 years       |         |

4.3 Describe the ways in which the identified risks affect or could affect your business and your value chain.

Cemig evaluates and considers its exposure to physical risks related to climate change. The main influence on this is the fact that a large portion of its energy generation capacity is concentrated in the utilization of hydroelectric plants.

In relation to changes in precipitation patterns and changes occurring in natural resources, the Company considers the amplitude of the impacts on its activities in the short and medium term to be low. This assessment is based on the 4th Report from the IPCC, which presents a vision of diverse scenarios related to the effects of climate change on the terrestrial water system. For the period between the middle and the end of the 21st century, the IPCC indicates that the Southeastern region of Brazil may experience small oscillations in the water cycle which, possibly, may result in an increase in hydraulic production if there is an increase of 3 to 5°C in global temperature.

On the other hand, specific studies on changes in precipitation patterns for the domestic scenario present unfavorable results in relation to the variation in the availability of water in the Paraná River hydrographic basin, where a large number of the Company's plants is located. Precipitation could be reduced by 2.4% in this region by 2050, according to the report "Climate Change and Energy Safety in Brazil" produced by the Alberto Luiz Coimbra Post-Graduate Engineering Studies Institute (Coppe) - UFRJ.

Table of Contents

With regard to the uncertainties surrounding physical risks, whatever the future scenario, Cemig must be prepared, since 97% of its installed capacity is composed of hydroelectric plants.

Cemig and its controlled companies have 65 plants, 59 being hydroelectric plants, 4 thermoelectric plants and two wind farms, with a total installed capacity of 6,716 MW. It should be noted that of the four existing thermoelectric plants, only one uses fuel oil as its fuel. Of the rest, one is deactivated (and thus does not contribute to the Company's total installed capacity) and two utilize process gases and therefore do not emit greenhouse gases.

Regarding changes in the frequency of extreme weather events, Cemig also considers the risks in its energy distribution and transmission activities and conducts studies to identify the most common extreme events, such as strong winds, floods, droughts, torrential rains and other events. These factors may impact the energy distribution and transmission processes as well as the operation of the hydroelectric plant reservoirs.

4.4 Are there financial implications associated with the identified risks?

Yes

4.5 Please describe them.

This information is strategic and confidential and cannot be released.

4.6 Describe any actions the company has taken or plans to take to manage or adapt to the risks that have been identified, including the costs of those actions.

Due to the physical risks to its activities, Cemig invests in various preventive monitoring actions.

Regarding the risks of changes in precipitation patterns and the frequency of extreme weather events, the Company has adopted the following actions:

- Operates an extensive monitoring network that continually monitors hydro-climatological events, with the goal of conducting analyses and studies on the effects of climate change;

## Edgar Filing: ENERGY CO OF MINAS GERAIS - Form 6-K

- Engages in specific flood control, in addition to producing daily meteorological forecasts, including storm warnings to inform and orient local communities about the situation in the rivers (where level and flow monitoring is conducted). The Company also monitors hydro-climatological events at about 150 stations located along rivers and reservoirs;
- Makes available to society the operative data from the Company's main reservoirs, which originate from its Hydrometeorological Telemetry System. The system is composed by 95 field telemetry stations and transmits online data, which are capable of assisting various sectors of the Company and society in hydro-climatological monitoring;
- Has a Storm Localization system - SLT, which operates in real time with the objective of detecting, processing, distributing and storing information on atmospheric discharges, thereby assisting with Cemig's meteorological warnings;
- Conducts a revision activity which is called - Cheia de Projeto do Vertedor (Spillway Project), with the objective of assessing the operational conditions of the spillways at the hydroelectric plants and whether there is a need for any operational or physical adjustments to the dam;
- Works to adopt alternative distribution network technologies (protected and insulated networks) in order to improve coexistence between urban trees and overhead distribution networks, avoiding interruptions in the supply of electric energy caused by falling trees. To this end, in March 1999 the Company adopted the Protected Distribution Network - RDP as

Table of Contents

a definitive replacement for conventional naked networks and was the first Utility in Brazil to adopt the RDP as the minimum standard for urban service;

- Undertakes directional pruning of urban trees considered the most appropriate technique for use near overhead distribution networks and offers arboriculture and tree pruning courses for various municipal governments in the State of Minas Gerais;
- Has 5,942 km of protected and insulated distribution networks in the primary system, representing 18% of the total of primary urban networks. In relation to secondary urban networks, there are 25,216 km of insulated networks, representing 45% of the secondary urban networks;

In relation to changes in natural resources and other uncertainties regarding physical risks, the Company has adopted the following actions:

- Consolidated the Dam Safety Plan, in which directives were established for the development of an Emergency Action Plan and the updating of the Intelligent Dam Control and Safety System INSPETOR. In 2009, over 100 dam maintenance works, generation infrastructure upgrade and environmental compliance projects were carried out, with an emphasis on the reassessment and reestablishment of the structural and functional safety conditions of the dams and associated civil structures;
- Has Emergency Action Plans for some plants, for any eventual dam ruptures, containing communication flowcharts, the names of those responsible for the response actions, the means of detecting the emergency and the warning level, in addition to the initiation of the development of downstream flood maps, and; monitors wildfires in order to protect its transmission lines and monitors the behavior of the temperature, anticipating trends both in physical growth and temperature anomalies. This activity results in safer planning for generation and transmission line loads, thereby minimizing the risk of temporary and structural interruptions in the interconnected electric system.

*If a company selects Don't know in question 4.1:*

4.7 Please explain why you do not consider your company to be exposed to significant physical risks current or anticipated.

Not Applicable

*If a company selects Don't know in question 4.1:*

4.8 Please explain why not.

Not Applicable

**5. Other Risks: (CDP 2009 Q3)**

5.1 Does climate change present other significant risks current and/or anticipated for your company?

Yes

5.2 What are the current and/or anticipated other significant risks, and their associated countries/ regions and timescales?

| <b>Risk</b>               | <b>Region/Country</b> | <b>Timescale in years</b> | <b>Comment</b> |
|---------------------------|-----------------------|---------------------------|----------------|
| Reputational risks        | Brazil                | 0 5 years                 |                |
| Financial risks           | Brazil                | 0 5 years                 |                |
| Unpredictability of risks | Brazil                | 6 10 years                |                |

Table of Contents

5.3 Describe the ways in which the identified risks affect or could affect your business and your value chain.

Cemig considers, in addition to physical and regulatory risks, that it is exposed to other risks related to climate change, resulting indirectly from climactic alterations that may influence the management and operation of the energy generation, transmission and distribution businesses.

Considering the unpredictability of the risks, Cemig considers the possibility of changes in energy consumption patterns due to the influence of global warming due to an increase in the demand for energy for use in refrigeration and air conditioning systems to be a strategic risk.

In addition, the risks related to the Company's reputation and image due to its positioning and its actions related to climate issues are considerable.

Regarding financial risks, Cemig believes that all the risks identified in the answers to the previous questions have financial implications for the Company.

5.4 Are there financial implications associated with the identified risks?

Yes

5.5 Please describe them.

This information is strategic and confidential and cannot be released.

5.6 Describe any actions the company has taken or plans to take to manage or adapt to the risks that have been identified, including the costs of those actions.

Considering the risks related to its reputation, Cemig adopts mitigation actions for the impacts related to climate change described in the answers to the previous questions, in addition to being transparent, in terms of its sustainability actions, with its stakeholders. Of note among the communication and transparency actions undertaken is the publication of its sustainability report since 2006, which consolidate its main actions and strategies related to economic, environmental and social issues, and the Company's participation as a respondent in the Carbon disclosure Project since 2007.



## Edgar Filing: ENERGY CO OF MINAS GERAIS - Form 6-K

In order to manage reputation and image risks, Cemig relies on indicators integrated into the Balanced Scorecard (BSC), in addition to an internal management process that, since 2008, has included a workgroup formed of representatives from all the executive offices, which is also responsible for the internal alignment of projects aimed at strengthening the brand among the public with which the Company relates. Cemig hired Brand finance to conduct an assessment of its brand (including all the companies in the Group), which was valued at R\$ 1.3 billion in 2009.

*If a company selects "Don't know" in question 5.1:*

5.7 Please explain why you do not consider your company to be exposed to other significant risks (current or anticipated).

Not Applicable

Table of Contents

*If a company selects "Don't know" in question 5.1:*

5.8 Please explain why not.

Not Applicable

**6. Regulatory Opportunities: (CDP 2009 Q4)**

6.1 Do current and/or anticipated regulatory requirements related to climate change present significant opportunities for your company?

Yes

6.2 What are the current and/or anticipated significant regulatory opportunities, and their associated countries/ regions and timescales?

| Opportunity                    | Region/Country | Timescale in years | Comment |
|--------------------------------|----------------|--------------------|---------|
| International agreements       | Brazil         | 0 - 5 years        |         |
| Emission reporting obligations | Brazil         | 0 - 5 years        |         |
| Voluntary agreements           | Brazil         | 0 - 5 years        |         |

6.3 Describe the ways in which the identified opportunities affect or could affect your business and your value chain.

The main opportunities identified by Cemig, in relation to international agreements, are the Clean Development Mechanism – CDM projects according to the directives of the Kyoto Protocol, since Brazil, as a country that does not belong to annex 1, does not have GHG reduction goals. The Company also recognizes opportunities resulting from voluntary agreements, with the emergence of alternative markets for the development of carbon credit projects and commercialization, when not eligible within the standards of the UNFCCC.

In relation to the growing obligations to report its GHG emissions, Cemig considers them to be an opportunity to elevate the level of transparency in communication with stakeholders, thereby promoting a perception of increased value of its brand in the market. Some examples of this communication are the sustainability report, participation in sustainability indices such as the ISE-Bovespa and the Dow Jones sustainability Index and participation in Oekom Research and the Carbon Disclosure Project, in which its GHG emissions are reported every year.

6.4 What are the financial implications associated with the identified opportunities?

Yes

6.5 Please describe them.

The main financial implications related to the opportunities identified are related to the generation of carbon credits via CDM projects within the scope of the Kyoto Protocol. Cemig currently has 3 CDM projects, for which an estimated 443,000 tonnes of CO<sub>2</sub>e<sub>q</sub> will be generated, which will be valued in accordance with the market at the time of their sale. Information on the three projects will be provided in question 21.5.

Table of Contents

6.6 Describe any actions the company has taken or plans to take to exploit the opportunities that have been identified, including the investment needed to take those actions.

Through a diagnosis to identify possible projects within the scope of the CDM (described in the answer to question 2.1), Cemig, was able to identify opportunities which affect in a positive manner its commercial activities. The CDM incentive, therefore, contributed towards the solidification of these projects and the sustainable development of the region.

Some of the possibilities mapped that are to be undertaken within the CDM field are:

- Fuel replacement (conversion of boilers to burn natural gas);
- Reforestation of riparian forests and planted forests;
- Replacement of SF6 switches;
- Energy efficiency projects such as heating water with solar energy in low income housing projects;
- Construction of new SHPPs and Hydroelectric Power Plants;
- Increasing the power of Hydroelectric Power Plants, SHPPs, Wind farms and co-generation plants;

The Company has signed a contract with a specialized consulting firm to develop and monitor CDM projects, which may be based on the opportunities identified by Cemig in areas such as the installation/repowering of SHPPs and wind farms and other sources of alternative energy.

Currently, Cemig has a CDM project installed at the Barreiro Thermoelectric Power Plant, which operates using an electric energy production process based on steam, which is produced by burning the residual gases from the industrial process at a steel mill. The Barreiro Thermoelectric Power Plant project was approved by the Executive Committee of the United Nations Framework Convention on Climate Change – UNFCCC. Though it owns 100% of the assets, Cemig has ceded the carbon credits from this project to the V&M do Brasil steel company, as it is the supplier of the fuel used in the cogeneration plant.

Cemig, through its subsidiary Efficientia, is undertaking 3 more energy cogeneration projects in the CDM field using gas from blast furnaces in the iron/steel sector. This gas, which is a residue from the production of pig iron, comes from charcoal which is produced using wood from reforested areas. The gas is then burned in a boiler to produce steam and generate electric energy simultaneously. It is a clean and renewable alternative source of energy for the electric system. One of these projects is being conducted with Siderúrgica Pitangui, and is currently in the approval and registration stage by the EB – UNFCCC (Executive Committee of the United Nations Framework Convention on Climate Change).

## Edgar Filing: ENERGY CO OF MINAS GERAIS - Form 6-K

Cemig has other CDM projects related to Small hydropower Plants (SHPPs) underway, such as: SHPPs Cachoeirão -27 MW; Dores de Guanhões 14 MW; Senhora do Porto 12 MW; Fortuna II 9 MW; and Jacaré 9 MW, in which the Company has a 49% equity stake. The Project Design Documents (PDDs) have been concluded for these projects and they are currently in the validation phase by the Designated Operational Entities (DOEs).

*If a company selects 'Don't know' in question 6.1:*

6.7 Explain why you do not consider your company to be presented with significant opportunities current or anticipated.

Not Applicable

*If a company selects 'Don't know' in question 6.1:*

6.8 Please explain why not.

Not Applicable

Table of Contents

**7. Physical Opportunities: (CDP 2009 Q5)**

7.1 Do current and/or anticipated physical impacts of climate change present significant opportunities for your company?

Yes

7.2 What are the current and/or anticipated significant physical opportunities and their associated countries/ regions and timescales?

| Opportunity                                      | Region/Country | Timescale in years | Comment |
|--------------------------------------------------|----------------|--------------------|---------|
| Changes in precipitation patterns                | Brazil         | 21 - 50 years      |         |
| Induced changes in supply chain and/or customers | Brazil         | 0 - 5 years        |         |

7.3 Describe the ways in which the identified opportunities affect or could affect your business and your value chain.

Identifying the physical changes resulting from changes in precipitation patterns as an opportunity and based on the 4th Report from the IPCC, in the Southeastern and Southern regions of Brazil, where Cemig has the majority of its reservoirs, water availability may oscillate between a stable level and an increase in water production the closer one gets to the higher southern latitudes. As a result and in accordance with this report, the production of hydroelectric energy may increase with climate alterations.

Cemig also believes that variations in temperature may influence the increase in the demand for energy, due to the greater utilization of refrigerators which, consequently, increase the commercialization of energy, economically expanding the Company's activities.

7.4 Are there financial implications associated with the identified opportunities?

Yes

7.5 Please describe them.

This information is strategic and confidential and cannot be released.

7.6 Describe any actions the company has taken or plans to take to exploit the opportunities that have been identified, including the investment needed to take those actions.

Cemig invests in the expansion of its Generation System. Most of the investment is concentrated in the construction of hydroelectric power plants. These are the main projects under construction (Enterprises: Power; Cemig Equity Stake; Invested up to 2009; Scheduled initiation of operations):

- Baguari Hydropower Plant: 140 Mw; 34%; R\$ 179 million; 2nd half / 2009
- Dores de Guanhães, Senhora do Porto, Fortuna II and Jacaré SHPPs: 44 MW; 49%; R\$ 10 million; 16 to 20 months after issuance of Service Order
- Santo Antônio Hydropower Plant: 3,150 MW; 10%; - ; 1st half/2012
- Pipoca SHPP: 20 MW; 49%; R\$ 17 million; 1st half/2010
- Paracambi SHPP: 25 MW; 49%; - ; 2nd half/2011

Table of Contents

Cemig is always looking for other opportunities resulting from climate change for the energy sector. To this end, the Company undertakes projects which include:

- Encouraging SHPP and co-generation projects;
- Repowering its hydroelectric plants;
- Providing incentives for the production of technology and the development of alternative energy source projects, such as: solar, wind, biomass, fuel cells, biodiesel, among others;

The investments in SHPPs are part of the Minas SHPP Program, run by Cemig with the objective of expanding its generation system by means of the installation of SHPPs in the State of Minas Gerais.

Cemig has been conducting a broad repowering program for its hydroelectric plants. The goal is to extend the useful life of the plants. The Repowering Project includes technological updates to the regulation, excitation and protection systems, in addition to renovations of the generators and turbines. The repowering of the generation plants, in addition to the extension of their useful lives, increases operational reliability, provides greater physical and electrical protection and better responses to oscillations in the system.

In 2009, the Company started planning the repowering of 10 generation units, four at the Volta Grande Plant and 6 at the São Simão Plant, scheduled for 2010 and 2018.

*If a company selects No in answer to 7.1, it is then asked:*

7.7 Explain why you do not consider your company to be presented with significant opportunities current or anticipated.

Not Applicable

*If a company selects Don't know in answer to 7.1, it is then asked:*

7.8 Please explain why not.



Not Applicable

**8. Other Opportunities: (CDP 2009 Q6)**

8.1 Does climate change present other significant opportunities current and/or anticipated for your company?

Yes

8.2 What are the current and/or anticipated other significant opportunities and their associated countries/regions and timescales?

| <b>Opportunity</b>                                                            | <b>Region/Country</b> | <b>Timescale in<br/>years</b> | <b>Comment</b> |
|-------------------------------------------------------------------------------|-----------------------|-------------------------------|----------------|
| Increased efficiency of goods and services                                    | Brazil                | 0 - 5 years                   |                |
| New energy products or services                                               | Brazil                | 6 - 10 years                  |                |
| Reputational opportunities and increased ability to attract and retain talent | Brazil                | 0 - 5 years                   |                |

Table of Contents

8.3 Describe the ways in which the identified opportunities could affect your business and your value chain.

Regarding new energy products or services, due to the physical characteristics of Brazil (strong sunshine and winds and heavy precipitation), Cemig has identified projects for the utilization of renewable energy sources as other opportunities, with wind, solar, biomass and biodiesel energy being of special interest.

In relation to the increase in the efficiency of assets and services, the Company also identifies the promotion of the use of Natural Gas through its subsidiary, Gasmig, as another opportunity. Gasmig supplies natural gas for use in industry and automobiles, providing a substitute for more polluting vehicles. In 2009, Gasmig began the expansion of its distribution network, reaching new clients that may rely upon natural gas to contribute towards a reduction in GHG emissions from their operations.

Through Efficientia, a services company owned by Cemig, the Company coordinates projects with the objective of promoting a reduction in costs and energy savings at the facilities of Cemig's large industrial and commercial clients.

Another opportunity identified by Cemig are the gains related to the Company's image and reputation that may be measured and expressed by means of indices such as the Dow Jones Sustainability Index (DJSI), the São Paulo Stock Exchange Corporate Sustainability Index (ISE Bovespa), OEKOM Research and other examples of local recognition.

8.4 Are there financial implications associated with the identified opportunities?

Yes

8.5 Please describe them.

This information is strategic and confidential and cannot be released.

8.6 Describe any actions the company has taken or plans to take to exploit the opportunities that have been identified, including the investment needed to take those actions.

The Company undertakes programs aimed at the sustainable consumption of energy, including processes that are more efficient from an energy point of view, in partnership with its residential, commercial, industrial and agricultural clients.

In 2009 Efficientia signed six contracts that will modernize and improve the efficiency of equipment and processes in various industrial sectors in the state of Minas Gerais and one contract with BHTRANS, a mixed economy enterprise in which the Belo Horizonte municipal government holds a majority equity stake, to improve the efficiency of the municipal traffic light system.

In the same year, R\$ 11.9 million were invested in the implementation of projects, representing energy savings of 24,029.53 MWh/year, with a reduction in peak demand of 2.0 MW. This savings corresponds to the annual consumption of approximately 16,700 residences with an average consumption of 120 kWh/month, representing an annual reduction in emissions of about 466 tonnes equivalent of CO<sub>2</sub>.

Efficientia also coordinates various projects in the sugar-alcohol sector and is managing the construction of new transmission lines and substations to connect sugar and alcohol plants to Cemig's system. These initiatives are allowing the energy generated through co-generation utilizing

Table of Contents

sugar cane bagasse (production residue) to be injected into the system, increasing the contribution from renewable energy sources to the national energy matrix. In 2009 five contracts of this nature were signed in the Vale do Tijuco, Paracatu, Chaveslândia, João Pinheiro and Frutal regions, all in Minas Gerais. These contracts will result in a power injection of 176 MW into the system.

Gasmig, a natural gas distribution company of the Cemig Group, was constituted in July 1986 to engage in the distribution of natural gas through pipelines in Minas Gerais. In August 2004, Cemig and Petrobras signed an Association Agreement, according to which Cemig agreed to sell a 40% stake in Gasmig to Gaspetro, a subsidiary of Petrobras. The increase in the natural gas distribution network allows more clients to have the opportunity to opt for a fuel less polluting than other petroleum and coal derivatives.

Among the natural gas distribution capacity expansion projects for Gasmig was the conclusion of the first stage of the Southern Minas Project, with investments of R\$ 144 million. The Project entered into operation in January of 2010. These networks extend for 114.4 km and are supplied by the Paulínia Jacutinga gas pipeline. 188 km of the planned 282 km of the second phase of the Vale de Aço distribution pipeline project also started construction in 2009. Investments in this project totaled R\$ 421 million through to 2009.

In 2009 Gasmig sold 551,105,000 m<sup>3</sup> of gas, with 73.9% being for industrial use, 9.7% for automotive use and 16.4% for thermal generation. Its 695 km network served 274 clients in 23 municipalities in the Belo Horizonte Region, the Zona da Mata region, the Vale do Aço region and the Sul de Minas region.

In an effort to take advantage of the direction the Company is headed, Cemig has undertaken a series of initiatives related to the generation of energy, energy efficiency, biofuels and activities in general that may promote some type of environmental gain, a reduction in GHG emissions and encourage new technologies. Below are some areas of work that exist in the Company today.

**Wind Power**

In 2009 the Company acquired a 49% equity stake in three wind farms owned by Impsa and located in the state of Ceará, namely: Praias de Parajuru (28.8 MW), inaugurated in August of 2009, Praia do Morgado (28.8 MW) and Volta do Rio (42.0 MW), both under construction.

Also in that year Cemig finalized the Mapping of Wind Potential throughout the state of Minas Gerais, where promising sites are also being identified for the implementation of new enterprises.

The Company is currently developing, in partnership with UFMG – the Federal University of Minas Gerais, small wind-powered electric energy generators adapted for installation in mountainous regions that have the potential to serve remote locations.

**Solar Energy**

Cemig's pioneering work in the area of solar energy, both in its photovoltaic form and in its solar thermal form, which utilizes flat collectors and solar concentrators, has helped to create energy offer alternatives and increase efficiency for consumers in the state of Minas Gerais. In 2009, Cemig undertook the planning, the bidding processes and the structuring for the installation of 15,000 solar heating systems to be installed in 2010 and 2011. It is estimated that this project will result in a 50% reduction in electric energy consumption in each residence with an installed system. The Company is also conducting experimental studies on district solar heating systems that have the potential for lower acquisition, installation and maintenance costs.

The first solar thermoelectric plant in Brazil is installed at Cefet-MG the Federal Technological Education Center of Minas Gerais. It is a 10 kW experimental unit developed in partnership with Cemig.

Table of Contents

Cemig has already installed, as part of the Light for Everyone Program, photovoltaic energy generation systems at 1,667 residences that, added to the units installed through previous programs, amount to 2,500 residences, schools and healthcare clinics. In 2009, about 51 pieces of old equipment were replaced and performance analysis was undertaken for four photovoltaic systems that were interconnected with the electric network in 2008. This initiative is aimed at obtaining subsidies for the installation of large photovoltaic generation units in the medium term. In the research field, Cemig continues to invest in projects aimed at the purification of metallurgical silicon and the development of low cost photovoltaic cells.

It should also be noted that Cemig and GTZ – the German Technical Cooperation Agency are cooperating to study the feasibility of converting the Mineirão Stadium and Mineirinho Arena into buildings supplied by photovoltaic energy.

**Biomass**

Cemig is conducting R&D projects related to biomass, such as the production of biogas from sanitary landfills, biodigestors for cattle farming residue, the utilization of vegetable oils and alcohol in energy generation systems and microturbines powered by sawdust.

It is also important to point out that, in 2009, partnerships were established for the development of technologies for the generation of electricity using gases from charcoal production sites, from energy forest cultivation residue and from the production of charcoal residue. There is also an ongoing project to generate energy through the gasification of biomass to activate fuel cells.

**Solid Residues**

Cemig is looking for viable opportunities to generate energy from solid urban residue. To this end, the Company is conducting the Assessment of technological options for the generation of electricity from urban residue and tree clippings – research project, which will allow the Company to learn better ways of utilizing the energy in urban residue from an environmental point of view.

**Biodiesel**

Cemig supports the development of technologies for the production and use of biodiesel through research projects and partnerships with other state bodies. The Biofuel Laboratory has thus been built, in partnership with Cetec. The laboratory has a production capacity of 1,000 liters/day of biodiesel.

In 2009 the Company finalized the Production of biodiesel for the generation of electric energy with microturbines and stationary engines project and began testing a pickup truck in the Cemig fleet that utilizes B100 biodiesel. A biodiesel distributed generation system analysis project is currently being negotiated.

## Hydrogen and Fuel Cells

Cemig has a laboratory for the production of hydrogen via electrolysis and via the processing of ethanol, the project for which has been concluded. The main challenges in making this energy feasible are reducing production costs and storing and transporting this fuel. The hydrogen may be used initially as a fuel for tests in fuel cells, to supply internal demand and also as a chemical element for the purification of silicon, which is to be used in the photovoltaic cell R&D project.

Cemig has been investing in the research and development of fuel cell technologies since 2000 through projects linked to low temperature (PEM) and high temperature (SOFC) fuel cells, specifically in the development of new cell materials and elements, such as polymeric membranes, the application of carbon nanotubes in protonic membranes and the application of DLC (Diamond-like Carbon) techniques aimed at reducing cost and dependence on external components.

Table of Contents

In 2009, a prototype low power SOFC cell was produced and an integrated energy generation system is currently being developed using the gasification of biomass to activate SOFC fuel cells.

**Reputation improvement**

In relation to the opportunities identified and that involve the Company's image and reputation, of note is Cemig's participation in important sustainability indices and recognition bestowed for its corporate sustainability practices.

Cemig was selected in 2009, for the tenth consecutive year, to be part of the select list of companies in the DJSI World – Dow Jones Sustainability Index. The Company has been part of the index since its creation in 1999 and is the only company in the Latin American electric sector to be part of this Index. In these ten consecutive years of participation in the Dow Jones Index, Cemig was considered a world leader in the electric sector in the 2005/2006 period and a world leader in the utilities supersector in 2009/2010 and 2007/2008. The utilities supersector encompasses the companies that provide electric energy services, natural gas distribution, sanitation and other public utility services. This leadership consolidates the Cemig Group's commitment to corporate sustainability.

For the fifth consecutive time, Cemig was selected to be part of the Corporate Sustainability Index portfolio maintained by Bovespa, the São Paulo Stock Exchange, for the period from December 2009 to November 2010. This Index reflects the return of a portfolio composed of shares of companies with a recognized commitment to social responsibility and sustainability in the Brazilian corporate environment. Cemig has been included in this Index since it was created in 2005.

Cemig was also awarded the status of Prime by Oekom Research, a sustainability rating agency headquartered in Germany. With the Prime classification, Cemig became eligible to receive investments from institutions that take the German agency's criteria into consideration, which means having access to approximately 90 billion Euros. Cemig is the only company in the Brazilian utility sector, which encompasses electric energy, natural gas distribution, sanitation companies and other public utility companies, ever to be classified as Prime by Oekom.

In addition, in November 2009 the National Conservation and Rational Use of Energy Award was presented to Cemig by the Ministry of Mines and Energy. This Award recognizes the Company's important contribution towards sustainable development by means of the implementation of electric energy efficiency and conservation programs in the country.

*If a company selects No in answer to 8.1, it is then asked:*

8.7 Explain why you do not consider your company to be presented with significant opportunities – current or anticipated.

Not Applicable



*If a company selects "Don't know" in answer to 8.1, it is then asked:*

8.8 Please explain why not.

Not Applicable

Table of Contents

**Strategy**

**9. Strategy: (New for CDP 2010)**

9.1 Please describe how your overall group business strategy links with actions taken on risks and opportunities (identified in questions 3 to 8), including any emissions reduction targets or achievements, public policy engagement and external communications.

Cemig employs a strategy of continually investing in an energy generation matrix strongly based on renewable sources, while investing at the same time in research and development of alternative generation sources. The Company's expansion investment plan does not call for, in the short and medium term (2010/2013), the construction of thermoelectric plants in Cemig's generation system.

As detailed in the answers to previous questions, the actions undertaken by Cemig that are part of the emissions reduction program are:

- Investment in the expansion of its Generation System, through the construction of hydroelectric plants;
- To encourage SHPP and co-generation projects;
- Repowering of its hydroelectric plants;
- Renovation and modernization of the equipment at the Igarapé thermoelectric plant;
- To encourage the replacement of fossil fuels with Natural Gas through its subsidiary, Gasmig;
- Development of energy conservation and rational use programs at industrial, commercial and service facilities through its subsidiary, Efficientia;
- Implementation of the Total Fleet Control Program - CTF, which allows for the management of refueling process for Company vehicles, resulting in a reduction in the consumption of fuel;
- Energy efficiency projects;
- To encourage the production of technologies and the development of alternative energy projects, such as solar, wind, biomass, fuel cells, biodiesel and others;

The electric energy production process at Cemig depends very little on the utilization of fossil fuels, as the majority of the energy generated comes from hydroelectric plants. In 2009, 99% of the electric energy generated by Cemig came from hydroelectric plants. Cemig's emissions intensity in 2009 was equal to 0.62 kg CO<sub>2</sub>e/MWh, based on the calculation of the Company's energy generation and the scope 1 GHG emissions. Cemig's emissions result from the Igarapé Thermoelectric Plant, from its fleet of vehicles and aircraft and from SF<sub>6</sub> - Sulfur Hexafluoride leaks during scheduled maintenance and testing of equipment installed in electric distribution networks and substations.

It can be seen through a comparative analysis that the intensity of Cemig's emissions is much lower than those of the 12 leading companies in the 2009 Electric Utilities Report from the Carbon Disclosure Project - CDP, which had an average emissions intensity in 2008 of 584.34 kg CO<sub>2</sub>eq/MWh and is also lower than that of the Brazilian electric system, which is 48.4 kg CO<sub>2</sub>eq/MWh.

In the Company's generation system there is only one thermoelectric plant that uses fossil fuels: the Igarapé Thermoelectric Plant (installed capacity of 131 MW), which uses fuel oil and functions sporadically to meet emergency demands of the national interconnected electric system. In 2008, Cemig undertook the first stage of this plant repowering project, with the replacement of the thermal insulation of the boiler and of the air duct sheeting, resulting in a reduction of 4.6% in emissions of CO<sub>2</sub>eq. For 2010 and 2011, the repowering and renovation of the turbine and boiler are planned.

According to the directives of the Long Term Strategic Plan, in 2008 Cemig created a Workgroup with the objective of developing a Climate-related Energy Strategy for the Company, in view of the perspectives for new acquisitions which will compose its generation matrix in the next few years. The Strategy should take into consideration the expected alterations in emissions of greenhouse

Table of Contents

gases resulting from Cemig's generation matrix through initiatives that are considered more sustainable.

9.2 Do you have a current emissions reduction target?

No, but we are developing one.

*If you do not have a target:*

9.3 Please explain why not and forecast how your Scope 1 and Scope 2 emissions will change over the next 5 years.

Not Applicable

*If you are in the process of developing a target:*

9.4 Please give details of the target(s) you are developing and when you expect to announce it/them.

GHG emissions at Cemig are strongly influenced by the operation of its thermoelectric plant. This plant is put into operation according to determinations by ONS – the National System Operator, a federal body in charge of regulating electric energy in Brazil. As the Company does not exert any direct control over when and for how many hours the thermal plant will be operating, and as this plant is its main source of Scope 1 GHG emissions, Cemig has decided to effectively undertake improvements in that plant. In 2008, Cemig undertook the first stage of the repowering plan with the replacement of the thermal insulation of the boiler and of the air duct sheeting, which amounted to an investment of around R\$ 2.75 million and reduced CO<sub>2</sub>eq emissions by 4.6%. For 2010 and 2011 repowering and renovation activities have been scheduled for both the turbine and the boiler, which will receive an estimated investment of R\$ 22 million.

*If you have had a target and the date for completing it fell within your reporting year, please answer questions 9.5 and 9.6.*

9.5 Please explain if you intend to set a new target.

Not Applicable

*If you have an emissions reduction target:*

9.6 Please complete the table.

| <b>Target Type</b> | <b>Value of the target</b> | <b>Unit</b>    | <b>Base year</b> | <b>Emission in base year (metric tonnes CO2-eq)</b> | <b>Target year</b> | <b>GHGs and GHG sources to which the target applies</b> | <b>For recently completed targets only: was target met?</b> | <b>Comment</b> |
|--------------------|----------------------------|----------------|------------------|-----------------------------------------------------|--------------------|---------------------------------------------------------|-------------------------------------------------------------|----------------|
| Not Applicable     | Not Applicable             | Not Applicable | Not Applicable   | Not Applicable                                      | Not Applicable     | Not Applicable                                          | Not Applicable                                              | Not Applicable |

Table of Contents

**Emission Reduction Activities: (CDP 2009 Q23)**

9.7 Please use the table below to describe your company's actions to reduce its GHG emissions.

| Actions                                                                           | annual energy savings (if relevant) |       | annual emission reduction | Reduction               | Investment made or planned to enable actions (if relevant) |             | annual monetary savings (if relevant) |       | Timescale of actions and associated investments (if relevant) |                  |
|-----------------------------------------------------------------------------------|-------------------------------------|-------|---------------------------|-------------------------|------------------------------------------------------------|-------------|---------------------------------------|-------|---------------------------------------------------------------|------------------|
|                                                                                   | Number                              | Units | in metric tonnes CO2-e    | Achieved or anticipated | Number                                                     | Units       | Number                                | Units |                                                               |                  |
| Replacement of thermal insulation at the boiler and of air duct sheeting          | 4.6                                 | %     | 39.4                      | achieved                | 2.75                                                       | R\$ million |                                       |       | 2008                                                          | R\$ 2.75 million |
| Renovation and repowering of the boiler at the Igarapé Thermoelectric Power Plant |                                     |       |                           | anticipated             | 22                                                         | R\$ million |                                       |       | 2010/2011                                                     | R\$ 22 million   |

9.8 If not applicable, explain why.

Not Applicable

9.9 Please provide any other information you consider necessary to describe your emission reduction activities.

Within the context of the Cemig/Aneel Energy Efficiency Program - PEE, the Company maintains energy efficiency projects that foster reductions in energy consumption and, consequently, in the emission of GHG gases indirectly, as these programs were carried out at third party facilities.

From a number of projects, worth noting is the partnership signed between Cemig, Cohab - the Minas Gerais Housing Company and Sedru - the State Department for Regional Development and Public Policy, which was started in 2002 and continues conducting the Solar Energy Water Heating in Housing Projects initiative, aimed at optimizing electric energy consumption and reducing the load at peak hours.

Also as part of the Cemig/Aneel program, 100 energy diagnosis were conducted at large sized hospitals and at shelters for the elderly (SERVAS Homes for the Elderly), which resulted in the installation of a total 8,000 square meters of collector plates. These systems are to be installed in the next two years and shall result in a reduction in energy consumption on the order of 3,750 MWh/year and in energy demand of 2,850 kW,

## Edgar Filing: ENERGY CO OF MINAS GERAIS - Form 6-K

reducing GHG gas emissions by 92.25 tonnes of CO<sub>2</sub>eq.

Cemig has been operating, since 2006, the Conviver Project, aimed at providing guidance on energy efficiency measures to low income clients within the Metropolitan Belo Horizonte Region (RMBH) and in the interior of the State of Minas Gerais. In 2009, with a total investment of R\$ 12 million, the Conviver project attended 30,000 new low-income families from the RMBH, which

Table of Contents

received 140,000 compact fluorescent lamps, 1,100 heat-recuperator kits for showers and 3,500 refrigerators. Overall, initiatives undertaken in 2009 generated total energy savings of 3,476 MWh/year, which represented a reduction in GHG emissions of 85.51 tonnes of CO<sub>2</sub>eq.

Another project among those included in the Cemig/Aneel Energy Efficiency Program PEE is Cemig at School Procel, which is an environmental education program used as a communication channel intended to bring, to school teachers and students from both Primary and Secondary schools, themes addressing the fight against electric energy wastage, the protection of the environment and safety when handling energy, which included the distribution of 210 educational material kits for the schools, training programs with students and an investment on the order of R\$ 1.4 million in 2009.

For the implementation of energy efficiency projects in rural areas, Cemig relies on its Energy Farm, located in Uberaba in the Triângulo Mineiro region. In 2009, the farm held 8 events intended to raise awareness of the relevance of the efficient use of energy for sustainable development, which benefitted from the participation of 887 people.

Also noteworthy is the Electric Energy and Irrigation Water Use and Rationalization in Family Agriculture in the District of Jafba project, in the North of Minas Gerais, ongoing since 2007. In July 2009, the installation of 82 irrigation systems was concluded, with an investment of R\$ 1.17 million, coming from the Cemig/Aneel Energy Efficiency Program, utilizing resources from both third parties and the consumer. The new irrigation systems are totally automated and more efficient, thus leading to reductions of 33% in the electric energy and water used for irrigation. With the implementation of the Project, total energy savings of roughly 403 MWh in consumption and a reduction of 161 MWh in energy demand were achieved. In 2009, this project received the National Energy Conservation and Rational Use Award, in the Energy Industry Companies category, which was presented by the Ministry of Mines and Energy.

Cemig also has the Total Fleet Control Program CTF, which allows for the management of the Company's vehicle refueling process. This program has yielded a 33.2% reduction in fuel consumption, consolidated from 2005 through 2009. In addition to that, the Vehicle Fleet Renewal and Suitability Policy adopted by the Company establishes a 5-year period for the average useful life of the fleet. In 2009, Cemig approved the vehicle rental and management project for carriers and passenger vehicles, which calls for the replacement of 1,193 vehicles in 2010.

**Engagement with Policy Makers: (CDP 2009 Q28)**

9.10 Do you engage with policy makers on possible responses to climate change including taxation, regulation and carbon trading?

Yes

*If so,*



9.11 Please describe.

Cemig has four professionals that are members of the Climate Changes and Energy Technical Chamber maintained by COPAM the State Environmental Policy Council. It is important to point out that these Technical Chambers are important forums for deliberation and proposing directives aimed at the establishment of policies and norms for the reduction of atmospheric emissions and greenhouse gases emissions that contemplate alternatives for the improvement of environmental quality and foster sustainability in the state of Minas Gerais.

The Company also takes part in important Environmental Councils that influence the development of norms and directives regarding climate change, among which we may cite: (i) CEBDS the Business Council for Sustainable Development (affiliated to the WBCSD World Business Council

Table of Contents

for Sustainable Development), in the Technical Climate Change Chamber; (ii) the State Council for Water Resources; and (iii) almost every one of the River Basin Committees, both state and federal, concerning the rivers running through the state of Minas Gerais.

Table of Contents

**GHG Emissions Accounting, Energy and Fuel Use, and Trading**

**10. Reporting Boundary: (CDP 2009 Q8)**

10.1 Please indicate the category that describes the company, entities, or group for which Scope 1 and Scope 2 GHG emissions are reported, per consolidated audited financial statements;

(x) Companies over which operational control is exercised

10.2 Are there any sources (e.g. facilities, specific GHGs, activities, geographies, etc.) of Scope 1 and Scope 2 emissions within this boundary which are not included in your disclosure?

No

*If so,*

10.3 Please complete the following table.

| Source         | Scope          | Explain why the source is excluded |
|----------------|----------------|------------------------------------|
| Not Applicable | Not Applicable | Not Applicable                     |

**11. Methodology: (CDP 2009 Q9)**

11.1 Please give the name of the standard, protocol or methodology you have used to collect activity data and calculate Scope 1 and Scope 2 emissions and/or describe the procedure you have used.

Brazilian GHG Protocol Program

11.2 Please also provide the names of and links to any calculation tools used.

Multi-sector tool of the Brazilian GHG Protocol Program

<http://www.ghgprotocolbrasil.com.br/index.php?page=ConteudoSecao&idsecao=1&idmenu=2>

11.3 Please give the global warming potentials you have applied and their origin.

| Gas | Reference | GWP    |
|-----|-----------|--------|
| CO2 | IPCC      | 1      |
| SF6 | IPCC      | 23,900 |

11.4 Please give the emission factors you have applied and their origin.

| Fuel / Material | Number | Emission Factor  | Unit | Reference                |
|-----------------|--------|------------------|------|--------------------------|
| Electricity     | 0.0246 | tonnes CO2 / MWh |      | GHG Protocol Brasil Tool |
| Gasoline        | 2.327  | Kg CO2e / liter  |      | GHG Protocol Brasil Tool |
| Diesel          | 2.681  | Kg CO2e / liter  |      | GHG Protocol Brasil Tool |
| Fuel Oil        | 2.94   | Kg CO2e / liter  |      | GHG Protocol Brasil Tool |
| Jet Kerosene    | 2.528  | Kg CO2e / liter  |      | GHG Protocol Brasil Tool |
| LPG             | 1.530  | Kg CO2 / liter   |      | GHG Protocol Brasil Tool |

Table of Contents

**12. Scope 1 Direct GHG Emissions: (CDP 2009 Q10)**

12.1 Please give your total gross global Scope 1 GHG emissions in metric tonnes of CO<sub>2</sub>-e.

21.921 tCO<sub>2</sub>e

12.2 Please break down your total gross global Scope 1 emissions in metric tonnes CO<sub>2</sub>-e by country/region.

Where it will facilitate a better understanding of your business, please also break down your total gross global Scope 1 emissions by business division and/or facility. (Only data for the current reporting year requested.)

Brazil - 21.921 tCO<sub>2</sub>e

12.3 If not applicable, explain why

Not Applicable

12.4. Business division

Cemig Geração e Transmissão: 7.551 tCO<sub>2</sub>e

Cemig Distribuição: 14.370 tCO<sub>2</sub>e

12.5 Facility

Not Available

## Edgar Filing: ENERGY CO OF MINAS GERAIS - Form 6-K

12.6 Please break down your total gross global Scope 1 emissions by GHG type. (Only data for the current reporting year requested.)

| GHG Type | Scope 1 emissions (metric tonnes) | Scope 1 emissions (metric tonnes CO2eq.) |
|----------|-----------------------------------|------------------------------------------|
| CO2      | 16,490                            | 16,490                                   |
| SF6      | 227.2                             | 5,431                                    |

12.7 If not applicable, explain why.

Not Applicable

12.8 Fuel Consumption

Please use the table to give the total amount of fuel in MWh that your organization has consumed during the reporting year.

74.980,56 MWh

12.9 If not applicable, explain why.

Not Applicable

Table of Contents

12.10 Please complete the table by breaking down the total figure by fuel type.

| <b>Fuels</b>                | <b>MWh</b> |
|-----------------------------|------------|
| Total                       | 74,980.56  |
| Diesel                      | 44,654.72  |
| Gasoline                    | 23,036.39  |
| Jet Kerosene                | 2,801.67   |
| Fuel Oil                    | 4,038.61   |
| LNG - Liquefied Natural Gas | 449.17     |

12.11 If not applicable, explain why.

Not Applicable

12.12 Data Accuracy: (CDP 2009 Q19)

Please estimate the level of uncertainty of the total gross global Scope 1 figure that you have supplied in answer to question 12.1 and specify the sources of uncertainty in your data gathering, handling, and calculations.

Electric utilities should report emissions by country/region using the table in question EU3.

|                                                        | <b>Scope 1</b> |
|--------------------------------------------------------|----------------|
| Uncertainty range                                      | Not Available  |
| Main sources of uncertainty in your data               | Not Available  |
| Expand on the main sources of uncertainty in your data | Not Available  |

**13. Scope 2 Indirect GHG Emissions: (CDP 2009 Q11)**

13.1 Please give your total gross global Scope 2 GHG emissions in metric tonnes of CO<sub>2</sub>-e.

889 t CO<sub>2</sub>e

13.2 Please break down your total gross global Scope 2 emissions in metric tonnes of CO<sub>2</sub>-e by country/region

Brazil - 889 t CO<sub>2</sub>e

13.3 If not applicable, explain why

Not Applicable

13.4 Business division

Cemig Geração e Transmissão: 213 tCO<sub>2</sub>e

Cemig Distribuição: 676 tCO<sub>2</sub>e



Table of Contents

13.5 Facility

Not Available

13.6 Purchased Energy

How much electricity, heat, steam, and cooling in MWh has your organization purchased for its own consumption during the reporting year?

| Energy Type | MWh       |
|-------------|-----------|
| Electricity | 45,841.67 |
| Heat        | 0         |
| Steam       | 0         |
| Cooling     | 0         |

13.7 If not applicable explain why.

Not Applicable

13.8 Data Accuracy: (CDP 2009 Q19)

Please estimate the level of uncertainty of the total gross global Scope 2 figure that you have supplied in answer to question 13.1 and specify the sources of uncertainty in your data gathering, handling, and calculations.

| Scope 2                                                |                                                                                                                                                                                                        |
|--------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Uncertainty range                                      | Less than 2%                                                                                                                                                                                           |
| Main sources of uncertainty in your data               | Data Gaps                                                                                                                                                                                              |
| Expand on the main sources of uncertainty in your data | Energy consumption is controlled through the electric energy bill payments correspondent to each of the Company's facilities. Therefore, uncertainties regarding that consumption are smaller than 2%. |

14. Contractual Arrangements Supporting Particular Types of Electricity Generation: (CDP 2009 Q12)

## Edgar Filing: ENERGY CO OF MINAS GERAIS - Form 6-K

14.1 Do you consider that the grid average factors used to report Scope 2 emissions in question 13 reflect the contractual arrangements you have with electricity suppliers?

Yes. Despite being an electric energy generator, the energy consumed by Cemig comes from the SIN – the National Interconnected Electric Energy System. Therefore, the utilization of the emission factor of the national grid, which is 24.6 kgCO<sub>2</sub>e/MWh, is justified, as determined by the Brazilian Ministry of Science and Technology in 2009. This factor is a result of the coefficient of fossil fuel utilization in the production of electric energy in the national grid, mainly in the operation of thermoelectric power plants. Further information on the methodology adopted for the calculation of the Brazilian national grid emissions may be obtained at: <http://www.mct.gov.br/index.php/content/view/74694.html> ..

Table of Contents

14.2 You may report a total contractual Scope 2 figure in response to this question. Please provide your total global contractual Scope 2 GHG emissions figure in metric tonnes CO<sub>2</sub>-e.

Not Applicable

14.3 Explain the origin of the alternative figure including information about the emission factors used and the tariffs.

Not Applicable

14.4 Has your organization retired any certificates, e.g. Renewable Energy Certificates, associated with zero or low carbon electricity within the reporting year or has this been done on your behalf?

No

*If so,*

14.5 Please provide details including the number and type of certificates.

| Type of certificate | Number of certificates | Comments       |
|---------------------|------------------------|----------------|
| Not Applicable      | Not Applicable         | Not Applicable |

**15. Scope 3 Other Indirect GHG Emissions: (CDP 2009 Q13)**

15.1 Please provide data on sources of Scope 3 emissions that are relevant to your organization.

| Source of Scope 3 emissions                                  | Emissions (in metric tonnes of CO <sub>2</sub> eq) | Methodology                       | If you cannot provide a figure for a relevant source of Scope 3 emissions, please describe the emissions. |
|--------------------------------------------------------------|----------------------------------------------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------|
| Other Scope 3 emissions / 16. Employee Commuting / Employees | 246.9                                              | GHG Protocol<br>Brazilian Program |                                                                                                           |

## Edgar Filing: ENERGY CO OF MINAS GERAIS - Form 6-K

|                                                                                           |         |                                   |
|-------------------------------------------------------------------------------------------|---------|-----------------------------------|
| Upstream Scope 3 / 5. Transportation & Distribution / Transportation/ logistics suppliers | 675.2   | GHG Protocol<br>Brazilian Program |
| Upstream Scope 3 / 6. Business Travel / Transportation suppliers e.g. airline             | 1,627.7 | GHG Protocol<br>Brazilian Program |

Cemig's Scope 3 GHG emissions were calculated taking into account the airplane trips taken by employees on commercial flights, the outsourced transportation service for materials to the Company's facilities and the transportation of employees within the Metropolitan Belo Horizonte Region.

15.2 If not applicable, explain why.

Not Applicable

### **16. Emissions Avoided Through Use of Goods and Services: (CDP 2009 Q14)**

16.1 Does the use of your goods and/or services enable GHG emissions to be avoided by a third party?

Yes

Table of Contents

*If so,*

16.2 Please provide details including the anticipated timescale over which the emissions are avoided, in which sector of the economy they might help to avoid emissions and their potential to avoid emissions.

Cemig's activities are directed towards the generation, transmission and distribution of electric energy and all of the investments in the expansion and/or repowering of its generation system are focused on renewable energies, with special attention to energy efficiency, and these investments are therefore directly and indirectly responsible for a reduction in carbon emissions.

The main source of Cemig's energy generation (97% of its matrix) is hydroelectric plants. When compared with other companies in the electric sector, whose generation is based on the use of thermoelectric plants, Cemig stands out for its supply of energy with low carbon emissions. In a comparative parameter of scope 1 emissions intensity, Cemig has an intensity equal to 0.62 kg CO<sub>2</sub>e/MWh, while the 12 leading companies in the Electric Utilities Report 2009 from the Carbon disclosure Project - CDP had average emissions intensity in 2008 of 584.34 kg CO<sub>2</sub>eq/MWh.

Within the context of the Energy Efficiency Program - PEE Cemig/Aneel, R\$ 26.5 million were directed towards energy efficiency projects in 2009, resulting in a reduction in energy consumption of 27,765 MWh/year and a reduction in peak demand of 11.62 MW. The actions undertaken through the program resulted in a reduction in greenhouse gas emissions of 539 tonnes CO<sub>2</sub>eq indirectly, as the programs were undertaken at the facilities of third parties.

Cemig is also involved in energy efficiency through Efficientia S.A., which coordinates projects with the objective of promoting a reduction in costs and energy savings at the facilities of large industrial and commercial clients.

Using resources from the Cemig/Aneel - PEE, R\$ 11.9 million were invested by Efficientia in the implementation of projects, representing energy savings of 24,029.53 MWh/year, with a reduction in peak demand of 2.0 MW. This savings corresponds to the annual consumption of approximately 16,700 residences with an average consumption of 120 kWh/month, representing an annual reduction in emissions of about 466 tonnes equivalent of CO<sub>2</sub>.

Efficientia also coordinates various projects in the sugar-alcohol sector and is managing the construction of new transmission lines and substations to connect sugar and alcohol plants to Cemig's system. These initiatives are allowing the energy generated through co-generation utilizing sugar cane bagasse (production residue) to be injected into the system, increasing the contribution from renewable energy sources to the national energy matrix. In 2009 five contracts of this nature were signed in the Vale do Tijuco, Paracatu, Chaveslândia, João Pinheiro and Frutal regions, all in Minas Gerais. These contracts will result in a power injection of 176 MW into the system.

Gasmig, a natural gas distribution company of the Cemig Group, was constituted in July 1986 to engage in the distribution of natural gas through pipelines in Minas Gerais. Through its 695-km network, Gasmig offers clients in the Belo Horizonte, Zona da Mata, Vale do Aço and Sul de Minas regions a source of energy that is less carbon intensive as an alternative to fuels derived from petroleum and coal (more carbon intensive than natural gas) for use in industry and automobiles and for domestic use.

**17. Carbon Dioxide Emissions from Biologically Sequestered Carbon: (CDP 2009 Q15)**

17.1 Please provide your total carbon dioxide emissions in metric tonnes CO<sub>2</sub> from the combustion of biologically sequestered carbon i.e. carbon dioxide emissions from burning biomass/biofuels.

1,188 tonnes of CO<sub>2</sub>eq.

This value corresponds to the percentage of the amount of biofuels added to the fossil fuels, as determined by Brazilian legislation. In 2009, 25% of ethanol were added to gasoline, and 3% of

Table of Contents

biodiesel were added to diesel. Brazilian legislation imposes the addition of biofuels to fossil fuels and the amount varies according to the availability of fuels.

17.2 Please explain why not

Not Applicable

**18. Emissions Intensity: (CDP 2009 Q16)**

18.1 Please describe a financial and an activity-related intensity measurement for the reporting year for your gross combined Scope 1 and Scope 2 emissions.

| Type of emissions intensity measurement | Units                              | The resulting figure for Scope 1 and Scope 2 emissions | Please explain if not relevant. Alternatively provide any contextual details that you consider relevant to understand the units or figures you have provided. |
|-----------------------------------------|------------------------------------|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Financial                               | t CO <sub>2</sub> eq / R\$ million | 5.6474                                                 | 22,810 tonnes of CO <sub>2</sub> / R\$ 4,039 million (Ebitda)                                                                                                 |
| Activity-related                        | t CO <sub>2</sub> eq / MWh         | 0.00068                                                | 22,810 tonnes of CO <sub>2</sub> / 33,540,000 MWh                                                                                                             |

**19. Emissions History: (CDP 2009 Q17)**

19.1 Do the absolute emissions (Scope 1 and Scope 2 combined) for the reporting year vary significantly compared to the previous year?

Yes

*If so,*

19.2 Please explain why they have varied and why the variation is significant.

## Edgar Filing: ENERGY CO OF MINAS GERAIS - Form 6-K

Cemig's Scope 1 emissions were reduced by 90% from 2008 to 2009. This reduction is due to the fact that the Igarapé Thermoelectric Power Plant operated for only 8 hours and 40 minutes in 2009, as opposed to the 2,985 hours registered in 2008. This unit operates to supply for contingencies in the interconnected electric energy system. With an installed capacity of 131 MW, it burns fuel oil. In 2008, the Igarapé Thermal Plant emissions were responsible for 89% of the Company's total emissions.

Scope 2 emissions were reduced by 60% in 2009 compared to 2008 due to a reduction of the electric energy emission factor as calculated by the Science and Technology Ministry, from 0.0484 tonnes CO<sub>2</sub>/MWh in 2008 to 0.0246 tonnes CO<sub>2</sub>/MWh in 2009, and also to a small reduction in the electric energy consumed by the Company.

### 20. External Verification/ Assurance: (CDP 2009 Q18)

20.1 Please complete the following table indicating the percentage of reported emissions that have been verified/assured and attach the relevant statement.

|                                                                             | Scope 1 | Scope 2 | Scope 3 |
|-----------------------------------------------------------------------------|---------|---------|---------|
| Percentage of reported emissions that have been externally verified/assured | 0,00%   | 0,00%   | 0,00%   |
| Include the verification/assurance statement(s)                             | 0,00%   | 0,00%   | 0,00%   |



Table of Contents

**21. Emissions Trading and Offsetting: (CDP 2009 Q21 and 22)**

21.1 Do you participate in any emission trading schemes?

No, we don't participate nor do we currently anticipate participating in emissions trading scheme within the next two years.

If so,

21.2 Please complete the following table for each of the emission trading schemes in which you participate.

| Scheme name    | Time period    |                | Allowances allocated | Allowances purchased | Number         | Verified Emissions |                | Detail of ownership i.e. owned / operated or both |
|----------------|----------------|----------------|----------------------|----------------------|----------------|--------------------|----------------|---------------------------------------------------|
|                | Start date     | End date       |                      |                      |                | Units              |                |                                                   |
| Not Applicable | Not Applicable | Not Applicable | Not Applicable       | Not Applicable       | Not Applicable | Not Applicable     | Not Applicable | Not Applicable                                    |

21.3 What is your strategy for complying with the schemes in which you participate or anticipate participating?

Not Applicable

21.4 Has your company originated any project-based carbon credits or purchased any within the reporting period?

Yes

If so,

21.5 Please complete the following table.

**Project identification**

Edgar Filing: ENERGY CO OF MINAS GERAIS - Form 6-K

| Credit origination / credit purchase? | Project documentation URL                             | Verified to which standard?                                                                                                 | Number of credits(metric tonnes CO2eq.) | Credits retired? | Purpose e.g. compliance |                 |
|---------------------------------------|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|------------------|-------------------------|-----------------|
| Origination                           | CDM Project of Guanhães Energia, Minas Gerais, Brazil | <a href="http://www.carbotrader.com/jun1092dcp.pdf">http://www.carbotrader.com/jun1092dcp.pdf</a>                           | CDM                                     | 222,994          | N/A                     | Voluntary Basis |
| Origination                           | CDM Project of Cachoeirão, Minas Gerais, Brazil       | <a href="http://www.carbotrader.com/jun1123dcp.pdf">http://www.carbotrader.com/jun1123dcp.pdf</a>                           | CDM                                     | 184,801          | N/A                     | Voluntary Basis |
| Origination                           | Generation with Blast Furnace Gases at Siderpita      | <a href="http://cdm.unfccc.int/Projects/completeness_check.html">http://cdm.unfccc.int/Projects/completeness_check.html</a> | CDM                                     | 35,290           | N/A                     | Voluntary Basis |

Table of Contents

**Climate Change Communications**

**22. Climate Change Communications: (CDP 2009 Q27)**

22.1 Have you published information about your company's response to climate change/GHG emissions in other places than in your CDP response?

Yes

If so,

22.2 In your Annual Reports or other mainstream filing? Please attach your latest publication(s).

Yes

The Annual Report may be accessed at the following website:

[http://cemig.infoinvest.com.br/static/enu/relatorios\\_anuais.asp?idioma=enu](http://cemig.infoinvest.com.br/static/enu/relatorios_anuais.asp?idioma=enu)

For communication with investors, Cemig offers the following website:

<http://cemig.infoinvest.com.br/?idioma=enu>

22.3 Through voluntary communications such as CSR reports? Please attach your latest publication(s).

Yes

The Sustainability Report may be accessed at the following website:

[http://www.cemig.com.br/cemig2008/ing/sustentability\\_rep.asp](http://www.cemig.com.br/cemig2008/ing/sustentability_rep.asp)

Edgar Filing: ENERGY CO OF MINAS GERAIS - Form 6-K

For additional information please access the websites below:

<http://cemig.infoinvest.com.br/?idioma=enu>

[www.cemig.com.br](http://www.cemig.com.br)

Table of Contents

|    |                                                                                                                      |
|----|----------------------------------------------------------------------------------------------------------------------|
| 4. | Summary of Principal Decisions of the 107th Meeting of the Board of Directors, Cemig Distribuição S.A., May 26, 2010 |
|----|----------------------------------------------------------------------------------------------------------------------|

Table of Contents

**CEMIG DISTRIBUIÇÃO S.A.**

**LISTED COMPANY**

**CNPJ 06.981.180/0001-16**

**BOARD OF DIRECTORS**

**SUMMARY OF PRINCIPAL DECISIONS**

At its 107th meeting, held on May 26, 2010, the Board of Directors of Cemig Distribuição S.A. decided the following matter:

1. Contracting of toll-free telephone services / Re-ratification of CRCA.
2. Corporate guarantee for credit from rural savings funds / Re-ratification of CRCA.
3. Return, to the State of Minas Gerais, of ownership of a real estate property in the county of Almenara, Minas Gerais.
4. Signing of a mutual co-operation working agreement with the municipality of Belo Horizonte, Minas Gerais.

Av. Barbacena 1200 Santo Agostinho 30190-131 Belo Horizonte, MG Brazil Tel.: +55 31 3506-5024 Fax +55 31 3506-5025

**This text is a translation, provided for information only. The original text in Portuguese is the legally valid version.**

Table of Contents

|    |                                                                                                                                  |
|----|----------------------------------------------------------------------------------------------------------------------------------|
| 5. | Summary of Principal Decisions of the 114th Meeting of the Board of Directors, Cemig<br>Geração e Transmissão S.A., May 26, 2010 |
|----|----------------------------------------------------------------------------------------------------------------------------------|



Table of Contents

**CEMIG GERAÇÃO E TRANSMISSÃO S.A.**

**LISTED COMPANY**

**CNPJ 06.981.176/0001-58**

**NIRE 31300020550**

**BOARD OF DIRECTORS**

**SUMMARY OF PRINCIPAL DECISIONS**

At its 114th meeting, held on May 26, 2010, the Board of Directors of Cemig Geração e Transmissão S.A. decided the following matters:

1. Incentive-bearing donation to the Vita Vida Project of Servas / Complementation of CRCA.
2. Incentive-bearing donation to the Values of Minas (Valores de Minas) Project, of Servas.
3. Signing of contract to provide services of Cemig GT's System Operating Center (COS), with Sá Carvalho S.A. / Re-ratification of CRCA.

Av. Barbacena 1200 Santo Agostinho 30190-131 Belo Horizonte, MG Brazil Tel.: +55 31 3506-5024 Fax +55 31 3506-5025

**This text is a translation, provided for information only. The original text in Portuguese is the legally valid version.**



Table of Contents

|    |                                                                                                                     |
|----|---------------------------------------------------------------------------------------------------------------------|
| 6. | Summary of Principal Decisions of the 485th Meeting of the Board of Directors, Companhia Energética de Minas Gerais |
|    | CEMIG, May 26, 2010                                                                                                 |

Table of Contents

**COMPANHIA ENERGÉTICA DE MINAS GERAIS CEMIG**

**LISTED COMPANY**

**CNPJ 17.155.730/0001-64**

**NIRE 31300040127**

**BOARD OF DIRECTORS**

**SUMMARY OF PRINCIPAL DECISIONS**

At its 485th meeting, held on May 26, 2010, the Board of Directors of Companhia Energética de Minas Gerais decided the following matters:

1. Appointment of Chief Officers to the Board of Directors of Transmissora Aliança de Energia Elétrica S.A.
2. Appointment of Chief Officers to the Board of Directors of Transmissora Alterosa de Energia S.A.
3. Signing of contract to provide services of Cemig GT's System Operating Center (COS), with Sá Carvalho S.A.
4. Corporate guarantee for contracting of credit from rural savings funds.
5. Signing of loan contract and increase in the capital of Transchile Charrúa Trasmisión S.A.

Edgar Filing: ENERGY CO OF MINAS GERAIS - Form 6-K

6. Waiver of Cemig's first refusal right to shares offered for sale by its partners in Axxiom, and signing of a new Stockholders Agreement.

Av. Barbacena 1200 Santo Agostinho 30190-131 Belo Horizonte, MG Brazil Tel.: +55 31 3506-5024 Fax +55 31 3506-5025

**This text is a translation, provided for information only. The original text in Portuguese is the legally valid version.**

Table of Contents

7. Reply to CVM Inquiry CVM/SEP/GEA-1 N°. 221/2010, of May 25, 2010, Companhia  
Energética de Minas Gerais CEMIG, May 26, 2010

Table of Contents

**COMPANHIA ENERGÉTICA DE MINAS GERAIS CEMIG**

**LISTED COMPANY CNPJ 17.155.730/0001-64**

**REPLY TO CVM INQUIRY CVM/SEP/GEA-1 N°. 221/2010, OF MAY 25, 2010**

Question asked by the CVM





## Edgar Filing: ENERGY CO OF MINAS GERAIS - Form 6-K

The CVM requests further information on a report published in *Valor Econômico* newspaper of May 25, 2010, *Finances* Section, under *Highlights* on page C1, with the headline *Cemig Debentures* , which contains information presented by Mr. Luiz Fernando Rolla on the possibility of issuance of R\$ 600 million in debentures before the end of this year.

**Reply by CEMIG**



Edgar Filing: ENERGY CO OF MINAS GERAIS - Form 6-K

Dear Sirs:

In accordance with your request, in Official Letter CVM/SEP/GEA-1/Nº 221/2010, of May 25, 2010, about the press report referred to, we hereby ratify the information that the possibility does exist of raising of funds in the local market in the amount of approximately R\$ 600 million, as stated by me to the press and disclosed as mentioned in your Letter.

This placement is part of the operational context of the company, and aims to comply with principles in the Bylaws that require that management of the consolidated debt should seek to keep the principal indicators within the limits established in the Bylaws.

This being so, it is our belief that there is no event not in accordance with the policies published by the Company, nor any definitively important information that could justify the need for publication of a Material Announcement.

Belo Horizonte, May 26, 2010

Yours,

Luiz Fernando Rolla

Chief Officer for Finance, Investor Relations and Control of Holdings

Av. Barbacena 1200 Santo Agostinho 30190-131 Belo Horizonte, MG Brazil Tel.: +55 31 3506-5024 Fax +55 31 3506-5025

**This text is a translation, provided for information only. The original text in Portuguese is the legally valid version.**

Table of Contents

|                              |                                                                                               |
|------------------------------|-----------------------------------------------------------------------------------------------|
| 8.                           | Presentation of the Chief Officer for Finance, Investor Relations and Control of Holdings, XV |
| Annual Meeting, CEMIG APIMEC |                                                                                               |

Table of Contents

Table of Contents

Table of Contents





Table of Contents



Table of Contents

Table of Contents







Table of Contents



Table of Contents



Table of Contents

Table of Contents



Table of Contents

Table of Contents

Table of Contents



Table of Contents



Table of Contents

Table of Contents

Table of Contents

Table of Contents

Table of Contents

9. Presentation, XV Annual Meeting, CEMIG APIMEC, CEMIG GT: Supply and Demand Balance and National Grid & Financial Guidance

72

---

Table of Contents



Table of Contents

Table of Contents

Table of Contents

Table of Contents

Table of Contents

Table of Contents



Table of Contents





Table of Contents

Table of Contents

Table of Contents

Table of Contents

Table of Contents

Table of Contents

Table of Contents



Table of Contents

Table of Contents

Table of Contents

Table of Contents

Table of Contents

Table of Contents



Table of Contents



Table of Contents

Table of Contents

Table of Contents

Table of Contents

Table of Contents

Table of Contents

|     |                                                                                                                   |                     |
|-----|-------------------------------------------------------------------------------------------------------------------|---------------------|
| 10. | Market Announcement, Settlement Agreement Reached with Rima Industrial S.A., Companhia Energética de Minas Gerais | CEMIG, May 31, 2010 |
|-----|-------------------------------------------------------------------------------------------------------------------|---------------------|

Table of Contents

**COMPANHIA ENERGÉTICA DE MINAS GERAIS - CEMIG**

**LISTED COMPANY**

**CNPJ 17.155.730/0001-64**

**MARKET ANNOUNCEMENT**

Companhia Energética de Minas Gerais ( **Cemig** ), a listed company with securities traded on the stock exchanges of São Paulo, New York and Madrid, and holder of public service concessions, in accordance with its commitment to implement best corporate governance practices, hereby informs the public about the Settlement Agreement reached with Rima Industrial S.A. ( **Rima** ) in the action brought by Rima claiming repayment from Cemig, Case No. 0024.98.144031-6, with the objective to claim reimbursement of a portion of the payment for supplying electricity to Rima's consuming units, arising from the tariff adjustment put in place by DNAEE Ministerial Order 045/86, during the price freeze adopted under the economic measures referred to as the Cruzado Plan, around 1986. The action was in the phase known as Compliance with Judgment.

In the Settlement referred to, the parties have agreed a debtor balance owed by Cemig, in the amount of R\$ 85,000,000.00 (eight five million Reais), without any monetary or other adjustment, and including losing party's legal fees, to be paid by deduction from future invoices for supply of electricity and use of the distribution system.

The setting of the amount now agreed (R\$ 85,000,000.00) resulted from efforts at conciliation between the parties, and was based on a technical study prepared by Minas Gerais Federal University, which calculated a balance payable by Cemig to Rima, including monetary correction up to March 2010, of R\$ 154,194,155.02 (one hundred and fifty-four million one hundred and ninety-four thousand one hundred and fifty five Reais and two cents), presented in the case by Rima, and a technical study prepared by the Getúlio Vargas Foundation (FGV). The FGV study was commissioned by the parties under an understanding signed during the negotiation, and calculated the outstanding balance in favor of Rima, updated to April 2010, at R\$ 145,883,359.95 (one hundred and forty five million, eight hundred and eighty three thousand, three hundred and fifty nine Reais and ninety five cents). Other factors taken into account were the stage of the case, the various appeals pending hearing by the Courts, and the risks inherent to both parties.

It should be noted that the outstanding balances calculated in the technical studies by UFMG and FGV took into consideration previous offsetting of amounts, against the estimated credit in favor of Rima, from electricity invoices payable by consuming units of Rima. These had been put into effect during the course of the case, under court decisions to that effect. The total of the electricity invoices not paid by Rima, and subject of offsetting against the total amount owed by Cemig, corresponds to a nominal value of approximately R\$ 92,500,000.00 (ninety two million five hundred thousand Reais).

The Agreement brings to a close a legal impasse of several years, in which Rima claimed payment from Cemig of R\$ 239,192,736.52 (two hundred and thirty nine million one hundred and ninety two

Av. Barbacena 1200 Santo Agostinho 30190-131 Belo Horizonte, MG Brazil Tel.: +55 31 3506-5024 Fax +55 31 3506-5025

**This text is a translation, provided for information only. The original text in Portuguese is the legally valid version.**



Table of Contents

thousand seven hundred and thirty six Reais and fifty two cents) in March 2006, which would have been equivalent to approximately R\$ 800,000,000.00 (eight hundred million Reais) on the date of the Agreement, under the terms of the initial settlement order, with the corresponding legal action, and related incidental actions arising from argument about the tariff adjustment imposed by Ministerial Order 45/86, being set aside without decision on the merit. Also set aside was the Action for Rescission brought by Cemig, N° 1.0000.06.436.955-6/000, for setting aside of the Appeal Court Judgment given in the said Action for Reimbursement N° 0024.98.144031-6, and for Cemig to have the right to repossess the initial payment into court made on April 17, 2006, under Article 488, II, of the Code of Civil Procedure, in the amount, at that time, of R\$ 444,392.61 (four hundred and forty-four thousand three hundred and ninety-two Reais and sixty-one cents).

Cemig's management takes this opportunity to reiterate its commitment to permanent regularity and transparency of information, aware of its responsibility to stockholders, investors and the market.

Belo Horizonte, May 31, 2010

Yours,

Luiz Fernando Rolla

Chief Officer for Finance, Investor Relations and Control of Holdings

Table of Contents

|     |                                                                                                                                 |
|-----|---------------------------------------------------------------------------------------------------------------------------------|
| 11. | Summary of Minutes of the 483rd Meeting of the Board of Directors, Companhia Energética de Minas Gerais - CEMIG, April 15, 2010 |
|-----|---------------------------------------------------------------------------------------------------------------------------------|

**Table of Contents**

**COMPANHIA ENERGÉTICA DE MINAS GERAIS - CEMIG**

*LISTED COMPANY*

*CNPJ 17.155.730/0001-64 - NIRE 31300040127*

***BOARD OF DIRECTORS***

***SUMMARY OF MINUTES OF THE 483RD MEETING***

**Date, time and place:** April 15, 2010 at 9.30 a.m. at the company's head office,  
Av. Barbacena 1200, 18th Floor, Belo Horizonte, Minas Gerais, Brazil.

**Meeting Committee:** Chairman: Sergio Alair Barroso;  
Secretary: Anamaria Pugedo Frade Barros

**Summary of proceedings:**

**I The Chairman asked** the Board Members present whether they had any conflict of interest in the matters on the agenda of this meeting, and all said there was no such conflict of interest.

**II The Board approved** the minutes of this meeting.

**III The Board authorized:**

a) **Acquisition** of 10% of the registered capital of **Personatus Parcerias S.A. (Personatus)**, comprising 800 common shares, in the proportion of 49% by **Cemig GT** and 51% by Fundo de Investimento em Participações - **FIP Coliseu**.

b) **Subscription** and paying up, by Cemig GT, on or before May 7, 2010, of 49% of up to four hundred million common shares and 100% of up to four hundred million preferred shares in **Transmissora Alvorada de Energia Elétrica S.A. (Alvorada)**, provided this injection of capital is submitted to and approved by the Ordinary General Meeting of Stockholders of **Cemig GT**; and **vote**, by the representative of **Cemig GT** at the meeting of the Board of Directors and at the Extraordinary General Meeting of Stockholders of **Alvorada**, in favor of the increase of up to eight hundred million Reais in the registered capital, and in favor of creation of the class of preferred shares.

c) **Increase in the registered capital** of **Transmissora Alterosa de Energia S.A. (Alterosa)** by up to one billion two hundred million Reais, to provide for the Public Offer to Purchase Shares, with subscription, by **Alvorada**, of up to eight hundred million common shares and, by **Cemig GT**, of up to four hundred million preferred shares; and

**vote**, by the representatives of **Cemig GT** at the meetings of the Board of Directors and at the Extraordinary General Meeting of Stockholders of **Alterosa**, in favor of the creation of the class of preferred shares, the authorized capital being composed of up to four hundred and fifty million preferred shares and eight hundred and fifty million common shares; and in favor of the increase in the registered capital referred to above;

and also, if necessary, after the Public Offer to Purchase Shares has been held, **vote**, by the representatives of **Cemig GT**, at the Extraordinary General Meeting of Stockholders that decides on it, in favor of reduction of the registered capital of **Alterosa**, for the purpose of settlement of financial transactions in relation to any balance after the recording of the liabilities and obligations assumed by **Alterosa**.

Av. Barbacena 1200 Santo Agostinho 30190-131 Belo Horizonte, MG Brazil Tel.: +55 31 3506-5024 Fax +55 31 3506-5025

**This text is a translation, provided for information only. The original text in Portuguese is the legally valid version.**

Table of Contents

**IV The Board appointed:**

a) - to the **Board of Directors** of **Alvorada**, until the Annual General Meeting of 2011:

**Djalma Bastos de Moraes,**

**Luiz Henrique de Castro Carvalho, and**

**Marco Antonio Rodrigues da Cunha;**

b) - to the **Board of Directors** of **Gasmig**, until the Annual General Meeting of 2012:

- as sitting members:

**Djalma Bastos de Moraes** and

**José Carlos de Mattos;**

- and as substitute members:

**Luiz Fernando Rolla,**

**Fernando Henrique Schüffner Neto,**

**Bernardo Afonso Salomão de Alvarenga,**

**Marco Antonio Rodrigues da Cunha, and**

**Luiz Henrique de Castro Carvalho,**

- and as **CEO** of **Gasmig**, until the first meeting of the Board of Directors following the Annual General Meeting of 2012:

**Márcio Augusto Vasconcelos Nunes.**

**V The Board re-ratified:**

a) CRCA (Board Spending Decision) 039/2005, to adjust the estimated total for contracting of the licensing of the IS-U/CCS software, from SAP Brasil Ltda., to support the increase in the quantity of licenses of the SAP CCS/CRM modules, and the other terms of that CRCA being unchanged.

## Edgar Filing: ENERGY CO OF MINAS GERAIS - Form 6-K

b) CRCA 012/1999, to extend, as from the approval of this Decision, to all such sitting and substitute members of the Executive Board, the Board of Directors or the Audit Board as are former employees of Cemig, Cemig D or Cemig GT, the benefit of payment of the premium on the life insurance policy, for as long as they hold the post of member of any of those Boards, entirely at the expense of the Company, and shall be able to remain in the policy after they are no longer members of the Management or the Audit Board of Cemig, paying the respective insurance premiums, established by contract, themselves, the other terms of that CRCA being unchanged.

**VI The following spoke** on general matters and business of interest to the Company:

|                                 |                                   |                               |
|---------------------------------|-----------------------------------|-------------------------------|
| CEO and Vice-Chairman:          | Djalma Bastos de Moraes,          |                               |
| Board members:                  | André Araújo Filho,               | Evandro Veiga Negrão de Lima; |
| Chief Officer and Board member: | Marco Antonio Rodrigues da Cunha; |                               |
| General managers:               | João Procópio Campos Loures Vale, | Ricardo Luiz Diniz Gomes.     |

**The following were present:**

|                   |                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                            |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Board members:    | Sergio Alair Barroso,<br>Djalma Bastos de Moraes,<br>Adriano Magalhães Chaves,<br>André Araújo Filho,<br>Antônio Adriano Silva,<br>Arcângelo Eustáquio Torres Queiroz,<br>Evandro Veiga Negrão de Lima,<br>Francelino Pereira dos Santos, | Guy Maria Villela Paschoal,<br>João Camilo Penna,<br>Maria Estela Kubitschek Lopes,<br>Cezar Manoel de Medeiros,<br>Fernando Henrique Schüffner Neto,<br>Franklin Moreira Gonçalves,<br>Lauro Sérgio Vasconcelos David,<br>Marco Antonio Rodrigues da Cunha,<br>Paulo Sérgio Machado Ribeiro;<br>Ricardo Luiz Diniz Gomes; |
| General managers: | João Procópio Campos Loures Vale,                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                            |
| Secretary:        | Anamaria Pugedo Frade Barros.                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                            |

Anamaria Pugedo Frade Barros

Table of Contents

|                       |                                                                                             |
|-----------------------|---------------------------------------------------------------------------------------------|
| 12.<br>April 15, 2010 | Summary of Minutes of the 104th Meeting of the Board of Directors, Cemig Distribuição S.A., |
|-----------------------|---------------------------------------------------------------------------------------------|

Table of Contents

**CEMIG DISTRIBUIÇÃO S.A.**

*LISTED COMPANY*

CNPJ 06.981.180/0001-16 NIRE 31300020568

**BOARD OF DIRECTORS**

**SUMMARY OF MINUTES OF THE 104TH MEETING**

**Date, time and place:** April 15, 2010 at 10.30 a.m. at the Company's head office,  
Av. Barbacena 1200, 17th Floor, A1 Wing, Belo Horizonte, Minas Gerais, Brazil.

**Meeting Committee:** Chairman: Sergio Alair Barroso;  
Secretary: Anamaria Pugedo Frade Barros

**Summary of proceedings:**

**I** The Chairman asked the Board Members present whether any of them had conflict of interest in relation to the matters on the agenda of this meeting, and all stated there was no such conflict of interest.

**II** The Board approved the minutes of this meeting.

**III** The Board authorized:

**A)** Signing of confidentiality agreements with private companies and/or federal, state or municipal public institutions, which may be related parties to the company, for the purpose of assessing the technical and economic viability of products, services and solutions related to smart grid architecture and the automation of the electricity system, whether available now or under development, within the Cities of the Future Project, on the following terms:



- a) Period of validity of up to 24 months;
  
- b) No agreement shall generate between the parties any obligation of exclusivity or any other obligation than the obligation to confidentiality which shall be limited to the period of up to 5 years from the date of termination of the agreement.
  
- c) The agreement shall not generate for the parties any obligation to indemnify other than those arising from losses and damages, duly proven, excluding reparation for indirect damage, especially when resulting from losses on business opportunities.
  
- d) The agreement shall not involve transfer of funds between the parties nor assumption of any other financial or employment-Law obligation between them, each party being, in isolation, entirely responsible for its expenditures in execution of the agreement.
  
- e) Operational expenditure under the agreement shall be limited to that previously authorized by the budget of the area responsible for its execution.
  
- f) No agreement shall create any stockholding-related, labor-law, tax or social security obligation between the parties.
  
- g) No agreement shall oblige Cemig D to continue the negotiations, nor to enter into any legal transaction; and any participation by Cemig D must be the subject of a specific resolution by the Executive Board or by the Board of Directors. Such Resolution shall have a period of validity of two years.

**Av. Barbacena 1200 Santo Agostinho 30190-131 Belo Horizonte, MG Brazil Tel.: +55 31 3506-5024 Fax +55 31 3506-5025**

**This text is a translation, provided for information only. The original text in Portuguese is the legally valid version.**

Table of Contents

**B)** Periodic declaration, by the Executive Board, of Interest on Equity, subject to the maximum permitted by the legislation, that is to say 158,758,000 Reais, it being for the Executive Board to determine the locations and the processes of payment and to impute that Interest on Equity against the minimum obligatory dividend.

**IV** The Board declared payment to stockholders of Interest on Equity, to be part of and on account of the minimum obligatory dividend, in the amount of fifty one million, eight hundred and seventy eight thousand Reais, to be paid in two equal installments, by June 30 and December 30, 2011, for which the Executive Board shall obey these deadlines, and determine the places, periods and processes of payment. Stockholders whose names are in the Company's Nominal Share Registry on April 15, 2010 shall be entitled to this payment.

**V** The board ratified signature of the First Amendment to Contract 4570008867, to adapt the definition of Affiliated Companies expressed in that Contract so as to enable Cemig GT to have access to the software that is licensed; and authorized signature of the Second Amendment to that Contract, to increase the licensing of the SAP Business Suite and SAP Netweaver software, the components of which include SAP Customer Relationship Management and Billing for Utilities and SAP Customer Financial Management for Utilities, the total value of the technical support Contract of the CCS/CRM software being adjusted.

**VI** The Board validated the 2009 Annual Social and Environmental Responsibility Report of the Electricity Companies, to be presented to Aneel by April 30, 2010.

**VII** The following spoke on general matters and business of interest to the Company:

The Chairman;

CEO and Vice-Chairman:

Board members:

Djalma Bastos de Moraes;

André Araújo Filho,

Evandro Veiga Negrão de Lima,  
João Camilo Penna;

Chief Officer and Board member:

Chief Officer:

General Managers:

Marco Antonio Rodrigues da Cunha;

Bernardo Afonso Salomão de Alvarenga;

Leonardo George de Magalhães,

Ricardo Luiz Diniz Gomes.

**The following were present:**

Board members:

Sergio Alair Barroso,  
Djalma Bastos de Moraes,  
Arcângelo Eustáquio Torres Queiroz,  
Evandro Veiga Negrão de Lima,  
Francelino Pereira dos Santos,  
Guy Maria Villela Paschoal,  
Marco Antonio Rodrigues da Cunha,  
Maria Estela Kubitschek Lopes,

André Araújo Filho,  
Antônio Adriano Silva,  
Adriano Magalhães Chaves,  
João Camilo Penna,  
Cezar Manoel de Medeiros,  
Fernando Henrique Schüffner Neto,  
Franklin Moreira Gonçalves,  
Lauro Sérgio Vasconcelos David,  
Paulo Sérgio Machado Ribeiro;

Edgar Filing: ENERGY CO OF MINAS GERAIS - Form 6-K

|                   |                                       |                           |
|-------------------|---------------------------------------|---------------------------|
| Chief Officer:    | Bernardo Afonso Salomão de Alvarenga; |                           |
| Audit Board:      | Vicente de Paulo Barros Pegoraro;     |                           |
| General Managers: | Leonardo George de Magalhães,         | Ricardo Luiz Diniz Gomes; |
| Secretary:        | Anamaria Pugedo Frade Barros.         |                           |

Anamaria Pugedo Frade Barros

Table of Contents

|     |                                                                                                                     |
|-----|---------------------------------------------------------------------------------------------------------------------|
| 13. | Summary of Minutes of the 111th Meeting of the Board of Directors, Cemig Geração e Transmissão S.A., April 15, 2010 |
|-----|---------------------------------------------------------------------------------------------------------------------|

Table of Contents

**CEMIG GERAÇÃO E TRANSMISSÃO S.A.**

*LISTED COMPANY*

CNPJ 06.981.176/0001-58 NIRE 31300020550

**BOARD OF DIRECTORS**

**SUMMARY OF MINUTES OF THE 111TH MEETING**

**Date, time and place:** April 15, 2010, at 11.30 a.m., at the company's head office,  
Av. Barbacena 1200, 12th Floor, B1 Wing, Belo Horizonte, Minas Gerais, Brazil.

**Meeting committee:** Chairman: Sergio Alair Barroso;  
Secretary: Anamaria Pugedo Frade Barros.

**Summary of proceedings:**

**I The Chairman asked** the Board Members present whether any of them had conflict of interest in relation to the matters on the agenda of this meeting, and all stated there was no such conflict of interest.

**II The Board approved** the minutes of this meeting.

**III The Board authorized:**

A) Signature of the 10th Amendment to Transmission Services Contract (CPSC) 002/2000, with the National Electricity System Operator (ONS), to change the base payments of the transmission functions owned by **Cemig GT**, in accordance with the **Permitted Annual Revenue (RAP)**, established in Aneel Homologating **Resolution 843/2009**, adjusting the value of that contract, backdated to and effective from July 1, 2009; and to substitute the attachments to that Contract, covering the base payments and the operational capacity of the transmission functions

belonging to the Company.

B) Periodic declaration, by the Executive Board, of Interest on Equity, subject to the maximum limit allowed by the legislation, and the Executive Board shall decide the locations and processes of payments, and impute Interest on Equity against the obligatory minimum dividend.

C) a) Acquisition of one hundred per cent of the registered capital of Personatus Parcerias S.A. (**Personatus**), representing eight hundred common shares, in the proportion of forty nine per cent for **Cemig GT** and fifty one per cent for Fundo de Investimento em Participações Coliseu (**FIP Coliseu**).

b) Signature of the following documents:

1) Share Purchase Agreement, between **Cemig GT** and **Eduardo Duarte** and **Simone Burck Silva**, for acquisition of forty nine percent of the registered capital of **Personatus**, the amount payable by Cemig GT to be three hundred and ninety two Reais.

2) Second amendment to the Commitment Undertaking made with **FIP Coliseu**, to reflect the stockholding reorganization necessary for the settlement of the Public Share Purchase Offer.

3) Amendments to the Stockholders Agreements of Transmissora Aliança de Energia Elétrica S.A. (**Aliança**) and Transmissora Alterosa de Energia S.A. (**Alterosa**).

4) Stockholders agreement of Transmissora Alvorada de Energia S.A. (**Alvorada**), to regulate relations and establish the rights and obligations of the parties.

Av. Barbacena 1200 Santo Agostinho 30190-131 Belo Horizonte, MG Brazil Tel.: +55 31 3506-5024 Fax +55 31 3506-5025

**This text is a translation, provided for information only. The original text in Portuguese is the legally valid version.**

Table of Contents

5) Waiver by **Cemig GT** and **FIP Coliseu** of first refusal for subscription of common shares in **Alterosa**, with a view to assignment or the right of subscription of such shares to **Alvorada**.

6) Second Amendments to the Unit Holders Agreement, **between:**

|                                |                                                              |
|--------------------------------|--------------------------------------------------------------|
| Banco Modal S.A.,              | Fundo Banespa de Seguridade Social Banesprev,                |
| BB Banco de Investimento S.A., | Fundação Chesf de Assistência e Seguridade Social Fachesf,   |
| Banco Santander (Brasil) S.A., | Fundação de Assistência e Previdência Social do BNDES Fapes, |
| Jonas Barcellos Corrêa Filho,  | Fundação Forluminas de Seguridade Social Forluz,             |
|                                | Fundação CEEE de Seguridade Social Eletroceee,               |
|                                | Fundação de Seguridade Social de Minas Gerais Previminas,    |
|                                | Instituto Infraero de Seguridade Social Infracprev, and      |
|                                | Sul América Companhia Nacional de Seguros,                   |

with **FIP Coliseu**, Cemig **GT** and Modal **Administradora de Recursos S.A.** as **consenting parties**, to alter the object of the said Undertaking to adapt it to the stockholding restructuring necessary for settlement of the Public Share Purchase Offer.

7) Term of Subscription to the Stockholders Agreement of **Aliança**, to reflect the acquisition of shares by **Alterosa** in the Public Share Purchase Offer.

8) Term of Subscription to the Stockholders Agreement of **Alterosa**, to reflect the participation of **Alvorada** in the registered capital of **Alterosa**.

c) **Subscription** and paying up, by Cemig GT, on or before May 7, 2010, of forty-nine percent of up to four hundred million common shares and one hundred percent of up to four hundred million preferred shares in **Alvorada**, provided this injection of capital is submitted to and approved by the Ordinary General Meeting of Stockholders of **Cemig GT**; and **vote**, by the representative of **Cemig GT** at the meeting of the Board of Directors and at the Extraordinary General Meeting of Stockholders of **Alvorada**, in favor of the increase of up to eight hundred million Reais in the registered capital, and in favor of creation of the class of preferred shares.

d) **Increase in the registered capital** of **Alterosa** by up to one billion two hundred million Reais, to provide for the Public Share Purchase Offer, with subscription, by **Alvorada**, of up to eight hundred million common shares and, by **Cemig GT**, of up to four hundred million preferred shares;

**vote**, by the representatives of **Cemig GT** at the meetings of the Board of Directors and at the Extraordinary General Meeting of Stockholders of **Alterosa**, in favor of creation of the class of preferred shares, the authorized capital being composed of up to four hundred and fifty million preferred shares and eight hundred and fifty million common shares; and in favor of the increase in the registered capital referred to above;

and also, if necessary, after the Public Share Purchase Offer has been held, **vote**, by the representatives of **Cemig GT**, at the Extraordinary General Meeting of Stockholders that decides on it, in favor of reduction of the registered capital of **Alterosa**, for the purpose of settlement of financial transactions in relation to any balance after the recording of the liabilities and obligations assumed by **Alterosa**.

**IV The Board declared** payment to stockholders of Interest on Equity, to be part of and on account of the minimum obligatory dividend, in the amount of sixty nine million, eight hundred seventy eight thousand Reais, to be paid in two equal installments, by June 30 and December 30, 2011, for which the Executive Board shall obey those deadlines, and determine the places, periods and processes of payment stockholders whose names are in the Company s Nominal Share Registry on April 15, 2010 being entitled to this payment.



Table of Contents

**V The board ratified:**

a) Signature of the Third Amendment to Contract for Use of the Transmission System (CUST) No. 077/2002, with the National Electricity System Operator (ONS), the Transmission Concession Holders represented by the ONS and the companies **Votorantim Metais Zinco S.A.**, **Companhia Siderúrgica Nacional**, Companhia **Vale** do Rio Doce and **Anglogold Ashanti** Brasil Mineração Ltda., other members of the **Igarapava Hydroelectric Plant Consortium**, to annul, backdated to July 1, 2009, the Amounts for Use of the Transmission System (MUST) contracted at the connection points not belonging to the National Grid, in relation to the Igarapava Generation project, and substitute the Appendix to the Contract.

b) Incentive-bearing donation of five hundred thousand Reais to the *Vita Vida* Project, of *Servas* (Voluntary Social Action Service), duly approved by the Minas Gerais State Council for Children and Adolescents.

**VI The Board validated** the 2009 Annual Social and Environmental Responsibility Report of the Electricity Companies, to be presented to Aneel by April 30, 2010.

**VII Withdrawn from agenda:** The matter of signature of contracts for rural real estate properties in the municipality of Engenheiro Navarro, Minas Gerais was withdrawn from the agenda.

**VIII The following spoke** on general matters and business of interest to the Company:

|                                 |                                          |                                                                |
|---------------------------------|------------------------------------------|----------------------------------------------------------------|
| The Chairman;                   |                                          |                                                                |
| CEO and Vice-Chairman:          | Djalma Bastos de Moraes;                 |                                                                |
| Board members:                  | André Araújo Filho,                      | Evandro Veiga Negrão de Lima,<br>João Camilo Penna;            |
| Chief Officer and Board member: | Marco Antonio Rodrigues da Cunha;        |                                                                |
| Chief Officer:                  | Bernardo Afonso Salomão de<br>Alvarenga; |                                                                |
| General managers:               | Leonardo George de Magalhães,            | João Procópio Campos Loures Vale,<br>Ricardo Luiz Diniz Gomes. |

**The following were present:**

|                |                           |                                |
|----------------|---------------------------|--------------------------------|
| Board members: | Sergio Alair Barroso,     | Guy Maria Villela Paschoal,    |
|                | Djalma Bastos de Moraes,  | João Camilo Penna,             |
|                | Adriano Magalhães Chaves, | Maria Estela Kubitschek Lopes, |
|                | André Araújo Filho,       | Cezar Manoel de Medeiros,      |

Edgar Filing: ENERGY CO OF MINAS GERAIS - Form 6-K

Antônio Adriano Silva,  
Arcângelo Eustáquio Torres Queiroz,  
Evandro Veiga Negrão de Lima,  
Francelino Pereira dos Santos,

Fernando Henrique Schüffner Neto,  
Franklin Moreira Gonçalves,  
Lauro Sérgio Vasconcelos David,  
Marco Antonio Rodrigues da Cunha,  
Paulo Sérgio Machado Ribeiro;

Chief Officer:

Bernardo Afonso Salomão de  
Alvarenga;

Audit Board:

Vicente de Paulo Barros Pegoraro;

Superintendents:

Leonardo George de Magalhães,

João Procópio Campos Loures Vale,  
Ricardo Luiz Diniz Gomes;

Secretary:

Anamaria Pugedo Frade Barros.

Anamaria Pugedo Frade Barros

Table of Contents

|     |                                                                                                                      |
|-----|----------------------------------------------------------------------------------------------------------------------|
| 14. | Summary of Principal Decisions of the 108th Meeting of the Board of Directors, Cemig Distribuição S.A., June 2, 2010 |
|-----|----------------------------------------------------------------------------------------------------------------------|

Table of Contents

**CEMIG DISTRIBUIÇÃO S.A.**

**LISTED COMPANY**

**CNPJ 06.981.180/0001-16**

**BOARD OF DIRECTORS**

**SUMMARY OF PRINCIPAL DECISIONS**

At its 108th meeting, held on June 02, 2010, the Board of Directors of Cemig Distribuição S.A. decided the following matter:

- Phase III of the Light for Everyone Program.

Av. Barbacena 1200 Santo Agostinho 30190-131 Belo Horizonte, MG Brazil Tel.: +55 31 3506-5024 Fax +55 31 3506-5025

**This text is a translation, provided for information only. The original text in Portuguese is the legally valid version.**