Energy Management Program 2026

1. Introduction

Cemig takes a structured approach to energy management, which is integrated into its sustainability and energy transition strategy. The energy management program aims to optimize the use of energy resources, reduce operating costs, and minimize environmental impacts, thereby contributing to the decarbonization of operations.

The Company implements a range of measures aimed at reducing energy consumption and transitioning to renewable sources through the application of energy-efficiency practices, the principles of bioclimatic architecture, continuous monitoring, and technological improvements. These initiatives represent a crucial step toward mitigating the company's environmental impact and promoting a sustainable future.

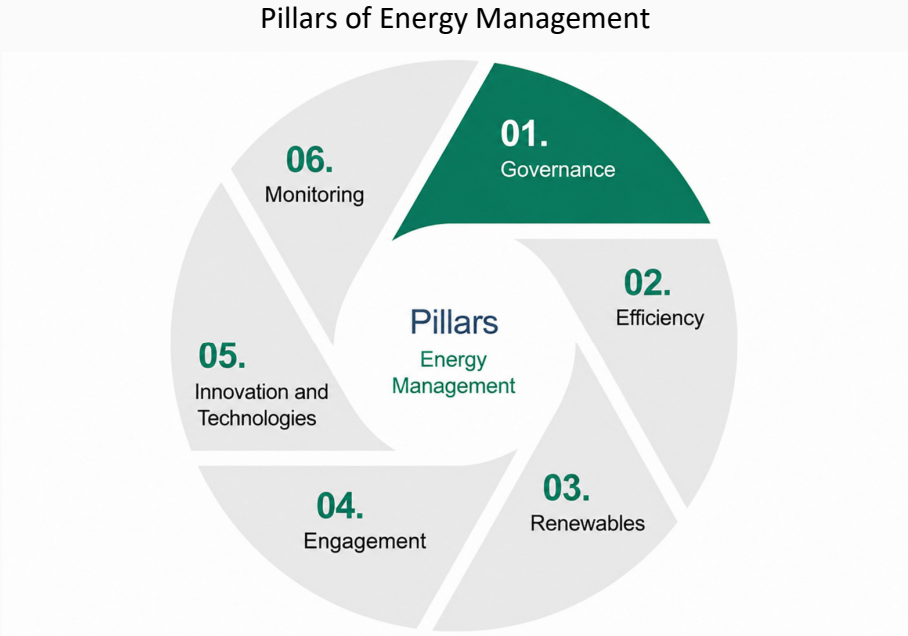


Figure 1: Strategic pillars of energy management

The main energy management initiatives stem from audits of the highest energy consumption.

Cemig has set a goal to reduce non-renewable energy consumption by 40% by 2027, using 2021 (56,115 MWh) as the baseline, which corresponds to an interim target of 40,082 MWh for 2025.

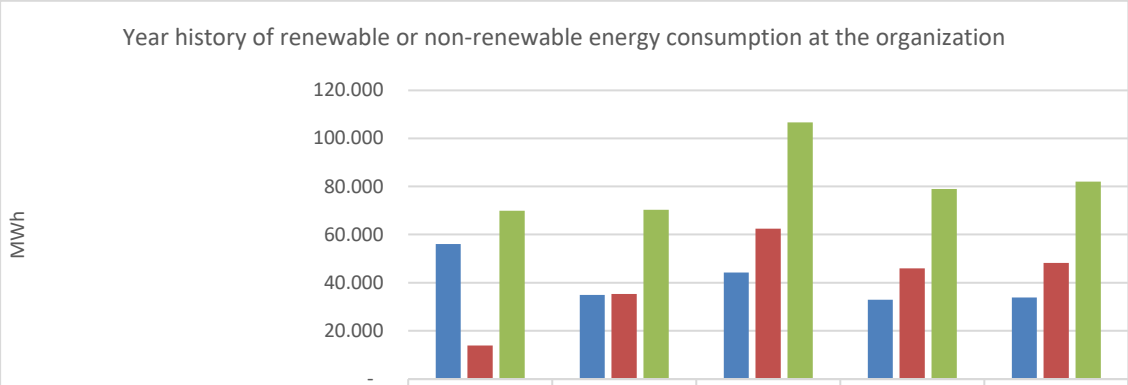
In 2025, there was a 2.68% increase in non-renewable energy consumption compared to 2024, totaling 33,832 MWh. This increase was due to the greater use of emergency generators, equipment used as a supplemental power source in specific situations, such as repairs and maintenance work on distribution networks. In such situations, generators ensure an uninterrupted power supply, preventing outages for customers and ensuring the reliability of the system.

Still, the Company recorded a 39.7% reduction compared to 2021, remaining largely in line with its established target. These results underscore the Company's efforts to implement measures that

promote the use of renewable energy, such as the mandatory use of ethanol in its vehicle fleet starting in April 2024.

There was a 4% increase in total energy consumption compared to 2024. Average consumption was 15.40 MWh per employee, reflecting the ongoing pursuit of more sustainable practices.

To achieve its goals, Cemig continues to implement a structured set of measures aimed at reducing energy consumption and optimizing its processes, thereby reinforcing its energy transition and sustainability strategy.



	2021	2022	2023	2024	2025
Non-renewable energy Consumption (MWh)	56.115	34.916	44.154	32.947	33.832
Renewable energy consumption (MWh)	13.835	35.331	62.483	45.998	48.143
Total energy consumption (MWh)	69.950	70.247	106.637	78.946	81.975

Figure 1: Energy consumption (MWh)

Energy Audits

The identification of opportunities to improve energy performance is conducted through systematic and periodic analyses of significant energy uses and consumption. These assessments enable the prioritization of corrective and preventive actions, supporting decision-making regarding equipment replacement, facility modernization, and the implementation of energy efficiency measures, including the optimization of lighting systems, among other initiatives.

2. Energy Consumption Reduction:

- **Guidance on Efficient Energy use:** The Company recognizes that changing individual behavior is essential to reducing energy consumption. By providing employees with guidelines on how to use energy more efficiently.

- **Use of LED lighting:** Replacing traditional light bulbs with LEDs is an effective way to reduce energy consumption and lighting costs.

- **Energy Efficiency Training for Employees at UniverCemig:** Through specialized training programs, the Company invests in developing its employees' skills so they can become agents of change within the organization. By sharing knowledge about energy efficiency practices, the company ensures that its employees are engaged in the journey toward sustainability.

- **Modernization of Building Facilities:** Retrofit of building systems based on the principles of bioclimatic architecture, including the following measures: maximizing natural light, using light colors and LED lighting, and replacing fiber-cement roofing with thermal-acoustic roofing, with the aim of reducing energy consumption, minimizing heat absorption, and improving thermal comfort.

- **Replacement of Air Conditioning Units with More Efficient Models**

- **Vehicle Fleet Management:** As a measure to reduce energy consumption within the Company, Cemig requires, as a policy, that the average year of manufacture for the vehicles in its fleet be less than five years, which is the legal depreciation period set by the granting authority. As a result, the Company renews its vehicle fleet annually, which helps reduce fuel consumption. In this regard, Cemig also invests continuously in the electrification of its fleet. Another initiative currently underway involves developing solutions to increase the use of Cemig's electric vehicles.

Table 1: Bioclimatic architecture – examples of implemented initiatives:

Figure 1: Retrofit of facilities with LED lighting.

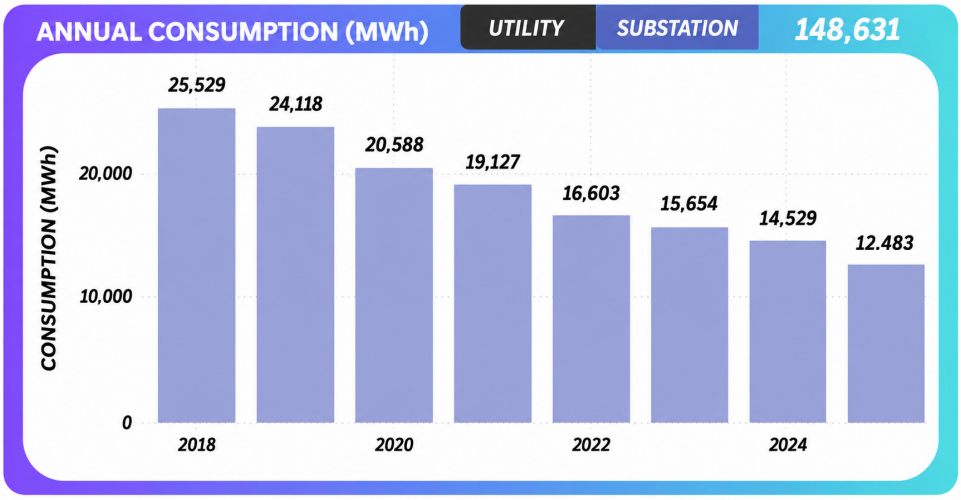
Figure 2: Retrofit of facilities utilizing natural lighting.

Figure 3: Replacement of fiber cement roofing with thermoacoustic roofing to reduce heat absorption.

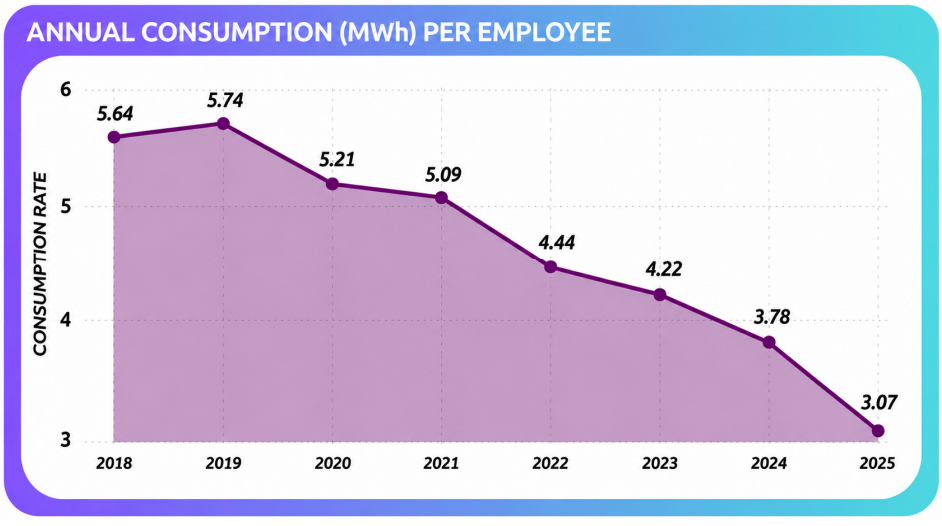
Figure 4: Use of LED lamps.

3. Electricity Consumption Monitoring

Within the investment cycle of the electricity distribution segment, aimed at improving the provision of electricity supply services, requires the construction of new substations (facilities that consume electricity). While energy consumption has not decreased in this sector, energy efficiency measures in building facilities have led to a significant reduction in electricity consumption, as shown in graph 2. Graph 3, which shows the electricity consumption report from Cemig Distribuição, also indicates that the measures taken to modernize building facilities have led to a reduction in electricity consumption per employee.



Graph 2: Building Energy Consumption – Cemig Distribution



Graph 3: Electricity consumption (MWh) per employee – Cemig Distribution

2. Replacement of Non-Renewable Energy with Renewable Energy Sources

- **Mandatory use of ethanol in place of gasoline in the vehicle fleet:** The adoption of ethanol as the primary fuel for the Company's vehicle fleet represents a major step toward reducing greenhouse gas emissions. Ethanol is a renewable and clean energy source derived from sugarcane, an abundant resource in Brazil.
- **Purchase of certified renewable electricity:** The use of electricity from renewable sources, such as solar or wind power, demonstrates the Company's commitment to sustainability and clean energy generation. The certification ensures that the energy's origin is traceable and meets the highest environmental quality standards.
- **Development of solutions to reduce or replace diesel consumption in the vehicle fleet.**
- **Electrification of the vehicle fleet:** Currently, only 3% of the company's own fleet consists of electric vehicles, and the leased fleet has not yet adopted this standard; in this regard, Cemig is seeking to implement solutions that contribute to the decarbonization of the fleet, with a view to expanding the use of electric vehicles.

3. 3.Innovation and Technology

Cemig is investing in innovation to accelerate the energy transition, with a focus on:

- digitalization
- energy efficiency
- clean energy generation
- electrification
- energy storage

In this area of activity, we highlight the development of battery energy storage solutions (Mobile BESS) installed in a mobile structure, enabling their use in various activities related to the maintenance and operation of the electrical system. The development of a mobile battery energy storage system will enable the company to use renewable energy more efficiently and flexibly, optimizing resource use and further reducing the environmental impact of its operations.
Link to additional information about the Bess Móvel Project: https://inova.cemig.com.br/tag/bess-movel/

Information about other projects: inova.cemig.com.br

4. Reduction of Energy Requirements for Products and Services

a) Energy Efficiency Program

Cemig develops and implements projects under the Energy Efficiency Program (PEE), regulated by the National Electric Energy Agency (ANEEL), which aims to promote the efficient use of electricity across all sectors of the economy.
Through the PEE, the Company:

- invests in energy efficiency projects for residential, commercial, and industrial consumers, as well as in the public sector.
- promotes the replacement of inefficient equipment with more energy-efficient technologies.
- encourages the rational use of energy through educational and awareness-raising initiatives.
- supports infrastructure projects, such as the modernization of public lighting systems and energy efficiency in buildings.

b) Cemig Sim (products and services)

Through its subsidiary Cemig SIM, Cemig has developed a portfolio of solutions designed to ensure greater efficiency, cost savings, safety, and smart energy management for our customers.

The platform monitors, analyzes, and identifies opportunities to optimize energy use, ensuring greater efficiency and cost savings.

Benefits:
- Real-time consumption monitoring
- Energy bill management
- Comprehensive energy diagnostics
- Identification of waste
- Recommendations for savings

Reference: Cemig SIM - Transformamos a energia do sol em benefícios para você, seu negócio e para o planeta.

5. **Conclusion**

Cemig has demonstrated consistent progress in energy management, with a significant reduction in the consumption of non-renewable energy sources and an expansion in the use of clean energy.

The integration of operational efficiency, technological innovation, and structural initiatives, such as the Energy Efficiency Program (PEE), strengthens the Company's role in promoting energy sustainability, both in its operations and within its concession area.