

Energy Management Program

2025



1. Introduction

Energy management is essential to ensure sustainability and promote the efficient use of resources. This energy management program aims to establish guidelines and strategies to optimize the use of energy resources, reduce operating costs and minimize environmental impacts.

The Company implements several actions aimed at reducing energy consumption and migrating to renewable sources, through the application of energy efficiency practices, the concept of bioclimatic architecture, continuous monitoring and technological improvements. These initiatives represent a crucial step towards mitigating the company's environmental impacts and promoting a sustainable future.

The main energy management actions originate from verifications (audits) of the highest consumption levels.

Cemig has set a goal of reducing non-renewable energy consumption by 40% by 2027, based on 2021. In 2024, there was a 25% reduction in non-renewable energy consumption compared to 2023 and a 41% reduction compared to 2021. These results demonstrate the Company's efforts to implement measures to enable the use of renewable energy, such as the mandatory supply of ethanol to the vehicle fleet starting in April 2024.

We also highlight the 26% reduction in total energy consumption, demonstrating the commitment to energy efficiency. In 2024, the average consumption was 8.24 MWh per employee, demonstrating the ongoing search for more sustainable practices.

To achieve this goal, the company is carrying out a series of actions to reduce the amount of energy consumed.

2. Reducing Energy Consumption:

- **Guidance on efficient energy use:** The Company recognizes that changing individual behavior is essential to reducing consumption. By providing guidance to employees on how to use energy more efficiently.
- **Use of LED lighting:** Replacing traditional bulbs with LEDs is an effective measure to reduce energy consumption and lighting costs.
- **Energy efficiency training at UniverCemig for employees:** Through specific training, the Company invests in training its employees so that they become agents of change within the organization. By disseminating knowledge about energy efficiency practices, the company ensures that its employees are engaged in the sustainability journey.
- **Modernization of building facilities:** Retrofitting of facilities using the principles of bioclimatic architecture, with the implementation of the following initiatives: taking advantage of natural lighting, using light colors and LED lighting, replacing fiber cement roofs with thermoacoustic ones, aiming at lower energy consumption, reducing thermal absorption and increasing thermal comfort.
- **Replacing air conditioning units with more efficient models**
Vehicle Fleet Management: As a measure to reduce energy consumption within the Company, Cemig

requires, by guideline, that the average manufacturing date of the vehicles in its fleet be less than five years old, a legal depreciation period set by the granting authority. Therefore, the Company renews its fleet of vehicles annually, which enables the reduction of fuel consumption. In this sense, Cemig constantly invests in the electrification of its fleet. Another initiative under development consists of developing solutions to increase the use of Cemig's electric vehicles.

Table 1: Bioclimatic architecture: examples of implemented initiatives:

	
<p>Figure 1: Retrofit of installations with LED lighting</p>	<p>Figure 2: Retrofit of facilities with use of natural lighting</p>
	
<p>Figure 3: Replacement of fiber cement roof with thermoacoustic roof that reduces thermal absorption</p>	<p>Figure 4: Use of LED lamps</p>

3. Monitoring Electricity Consumption

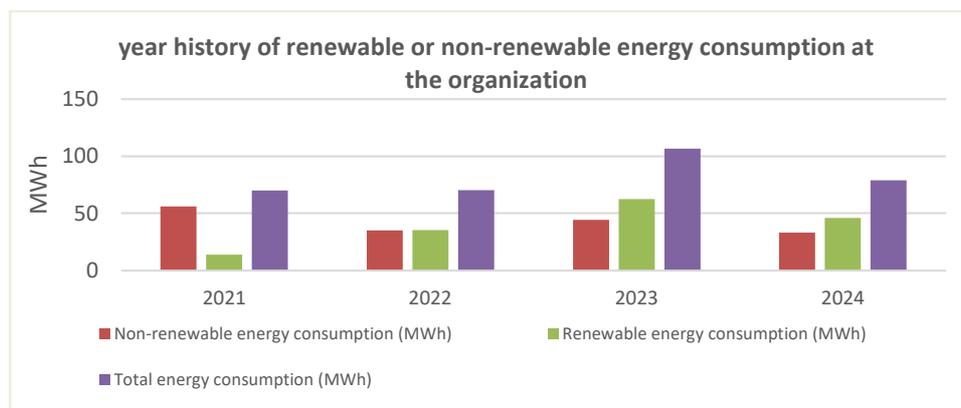
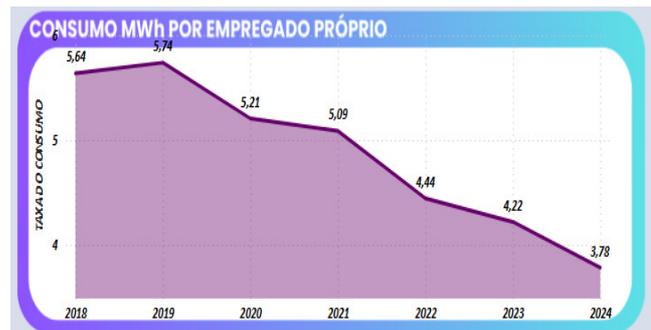


Gráfico 1: Consumo por tipo de energia



Graph 2: Building energy consumption



Graph 3: MWh consumption per employee

4. Substitution of Non-Renewable Energy for Renewable Energy:

- Mandatory use of ethanol to replace gasoline in the vehicle fleet: The adoption of ethanol as the main fuel for the Company's vehicle fleet represents a major step in reducing greenhouse gas emissions. Ethanol is a clean, renewable energy source that comes from sugarcane, an abundant resource in Brazil.
- Consumption of certified renewable electricity: The use of electricity from renewable sources, such as solar or wind energy, demonstrates the Company's commitment to sustainability and clean energy generation. Certification ensures that the origin of the energy 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: In the current scenario, only 3% of the company's own fleet is electric and the leased fleet has not yet adopted this standard. In this sense, Cemig seeks to implement solutions that contribute to the defossilization of the fleet, considering the expansion of the use of electric vehicles.

5. Research and Innovation

Cemig aims to accelerate the energy transition, promote a culture of innovation to transform existing businesses and explore new technologies.

The lines of action are:

- Digitalization
- Efficiency
- Clean energy generation
- Electrification
- Resilience
- Storage

In this line of action, we highlight the development of Battery Energy Storage solutions (Mobile BESS) installed in a mobile structure, allowing its use in various activities related to

the maintenance and operation of the electrical system. The development of a mobile battery energy storage system will allow the company to use renewable energy more efficiently and flexibly, optimizing the use of resources and further reducing the environmental impact of its operations.

Link with additional information about the Mobile BESS Project:
<https://inova.cemig.com.br/tag/bess-movel/>

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