

# SUCCESS CASES OF THE STATE OF MINAS GERAIS/BRAZIL

## ENERGY

### Minas Gerais Energy Company - Cemig

Minas Gerais Energy Company (Cemig) operates in the areas of generation, transmission, commercialization and distribution of electrical energy, energy solutions (Cemig SIM) and distribution of natural gas (Gasmig). The group is made up of the holding company Companhia Energética de Minas Gerais (Cemig), the wholly-owned subsidiaries Cemig Geração e Transmissão S.A. (Cemig GT) and Cemig Distribuição S.A. (Cemig D), totaling 102 Companies, 9 Consortiums and 2 FIPs (Investment Funds in Participation with activities and businesses in several states in Brazil.

Cemig is a publicly traded company, controlled by the Government of the State of Minas Gerais (51%), with its shares traded in São Paulo, on B3 S.A. (Brasil, Bolsa, Balcão), in New York, on the New York Stock Exchange (NYSE) and in Madrid, on the Latin American Securities Market (Latibex). The Company's consolidated net operating revenue reached R\$34 billion in 2022, based on a 100% renewable energy matrix.

Cemig's generating park has an installed capacity of 5,607.62 MW, of which 95.7% refers to hydraulic generation; 2.6%, to wind generation; 0.07% to solar generation and 1.6% to distributed generation. The company's current generation is 18,275,919.0 MWh. At the end of 2022, the Company had 60 Hydroelectric Power Plants (UHEs), Small Hydroelectric Plants (PCHs) and Hydroelectric Generating Plants (CGHs), two photovoltaic plants and seven wind complexes. The organization has a total of 5,016 km of transmission lines. In the area of electrical energy distribution, it is responsible for managing the largest electricity distribution network in Latin America, 565,144 km long.



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For more information, [click here](#).

TCFD Report: <https://www.cemig.com.br/wp-content/uploads/2023/08/tcfd-cemig-2023.pdf>

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### Climate Action Plan - Cemig

As part of the Company's climate strategy, in 2023 the Decarbonization Plan was prepared, which aims to define decarbonization paths to achieve GHG emissions reduction targets, in addition to identifying decarbonization actions, new business opportunities and gaps in the decarbonization process.

The Decarbonization Plan was built taking into account the recommendations of frameworks and initiatives such as the CDP, (Transition Plan Taskforce (TPT), and Assessing Low-Carbon Transition (ACT). The Decarbonization Plan describes how the company should manage its assets, operations and business models to achieve net-zero emissions by 2040.

We present below the decarbonization levers and businesses that will be implemented in the period 2023-2030.



#### Pillar 1: Reducing emissions in the distribution business

- Installation of smart meters, which perform remote operation in the Metropolitan Region of Belo Horizonte (RMBH), avoiding vehicle displacement and increasing the speed of service – reducing emissions: Reduction of emissions: 1,769 tCO<sub>2</sub>e/year
- Integrated control, operation and management system for high, medium and low voltage networks, contributes to reducing the number of trips with diesel-powered vehicles. Emissions reduction: 278.57 tCO<sub>2</sub>e/year
- Substation Automation System digitalization project. Emissions reduction: 0.82 tCO<sub>2</sub>e/year
- Development of new substation standards, reducing the use of SF<sub>6</sub>. - Emissions reduction: Projects under implementation – 132.33 tCO<sub>2</sub>e/year
- Implementation of zero low voltage networks (BTzero), contributing to reducing energy loss. Emissions reduction: 17499.11 tCO<sub>2</sub>e/year
- Energy Efficiency Projects (Minas Led, Cemig Hospitals, Schools, among others) - Projects being implemented – Emissions reduction: 8,643 tCO<sub>2</sub>e/year
- Study of electrification of the vehicle fleet.



#### Pillar 2: Emissions reduction in the generation business (Strategic Planning 2023-2027)

- Expansion of renewable energy generation - Add 1.1GWm by 2027 and 1.9GWm by 2032, investing R\$12.5B by 2027 and R\$26.6B by 2032.
- Expansion in distributed generation, adding 540MWp of installed capacity to the current portfolio – R\$3.2B



#### Pillar 3: Emissions reduction in the electricity trading business

- Sale of renewable energy certificates (Cemig REC and I-REC) – Projected sale of 68,996,081 MWh in the period 2023-2030 – Emissions reduction: 2,285,160 tCO<sub>2</sub>

For more information, [click here](#).

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