

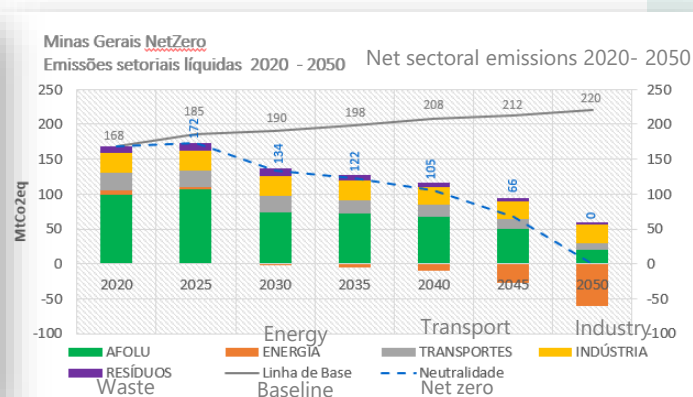
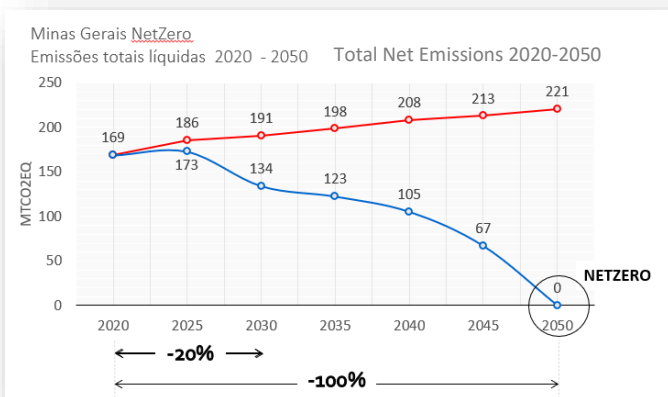
SUCCESS CASES OF THE STATE OF MINAS GERAIS/BRAZIL

STATE CLIMATE ACTION PLAN: PLAC-MG

Decarbonization Plan for the State of Minas Gerais within a climate-neutral Brazil 2050

For the neutrality of carbon emissions by the State, the elaboration of the PLAC-MG involved the development of a study to identify the best trajectory to achieve neutrality of net emissions of greenhouse gases. This study was carried out in partnership with large entities that have wide national and international recognition in the climate theme, such as CDP Latin America, ICLEI, UFRJ through the Alberto Luiz Coimbra Institute of Graduate Studies and Research in Engineering, COPPE, in addition to USP and UFMG. It identified the best mitigation technologies within a dynamic and integrated model that originated the optimal decarbonization trajectory with the identification of key sectors to achieve the scenario of neutrality of net greenhouse gas emissions by 2050, as committed to the global Race to Zero campaign.

Goal Trajectory



The best strategies identified from the aforementioned study to achieve neutrality by Minas Gerais, based on cost-effectiveness criteria, were considered for the composition of the PLAC-MG, the main ones being: the reduction of deforestation, achieving the scenario of zero illegal deforestation by 2028; continuous forest restoration until 2050 to expand stocks and the removal of GHG gases, including through commercial forest plantations; the decarbonization of the transport sector with the replacement of fossil fuels and electrification of fleets; the continued expansion of electricity generation from renewable sources; the decarbonization of strategic industrial processes, through the replacement of materials and fuels and energy efficiency; the introduction of carbon capture and storage technologies, especially in the production of biofuels, generating negative emissions; and the promotion of low-carbon agriculture.

The result of the study is a feasible trajectory (target scenario) that is coherent with the practices already employed locally in the economic sectors and by their agents and aligned with the present stage of Brazilian technological development, as well as the expected progress in the short, medium and long term.