LNBR is part of the Brazilian Center for Research in Energy and Materials (CNPEM), a non-profit private organization, located in Campinas-SP, Brazil, supervised by the Brazilian Ministry of Science, Technology, Innovation and Communications (MCTIC).

One of its main projects is **SUCRE** (Sugarcane Renewable Electricity), funded by the Global Environment Facility (GEF) and managed in partnership with the United Nations Development Program (UNDP).

INITIAL PHASE

Evaluate and promote economically viable technologies for straw collection, processing and burning for electricity generation.

Comprehend the agronomic and environmental effects of straw collecting on the crop and harvest cycle of sugarcane.

Identify barriers and suggests reformulations on the legal and regulatory energy framework to promote electricity generation at the mills.

FINAL PHASE

Disseminate the environmental and economic guidelines for sugarcane straw use throughout the sugarcane industry, according to lessons learned and results obtained by the Project. Conduct studies of technical-economic and environmental viability of straw use in at least seven sugarcane mills interested on initiating or expand its surplus electricity production.

WORK TEAMS

🎚 🖓 🕹

brazilian biorenewables

TECHNICAL

E

Evaluate and suggests technological solutions for straw collecting, processing and burning at the mills.

ECONOMIC

Demonstrate the economic viability of straw collection for electric power generation.

AGRI-ENVIRONMETAL

Evaluate agronomic and environmental impacts of straw collection from the field.

LEGAL AND REGULATORY

Suggest adaptations on the electric sector regulatory framework for sugarcane biomass energy.

DISSEMINATION

Spread the results for the sugarcane sector and disseminate straw use as a complement to bagasse on electricity generation.

MANAGEMENT

Act in the operational planning, supervision and management of the Project.





Implemented by LNBR/CNPEM, SUCRE Project aims to reduce greenhouse gases emissions through the expansion of bioelectricity generated from sugarcane straw. Sugarcane biomass as electricity source has a high contribution potential to the Brazilian energy matrix with its environmental, economic and social benefits. SUCRE is part of the Sustainable Development Goals (SDG) agenda, established by the United Nations.



Inbr.cnpem.br/en/research/technological-challenges/sucre-project

















