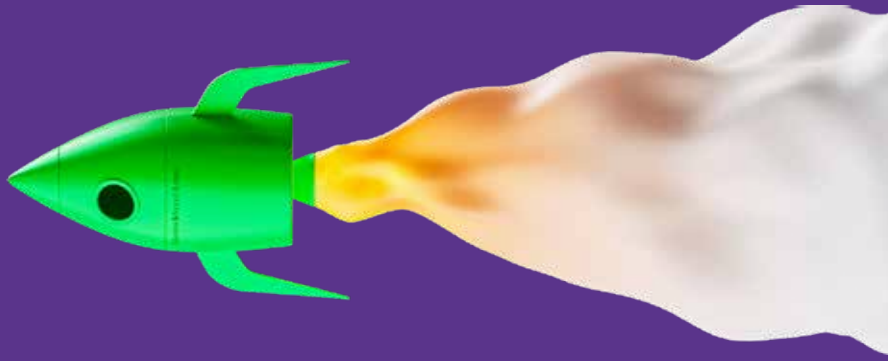
CeniClima

Visor del clima

GeoPortal

Solutions for a climate-smart region

cenicaña



Cenicaña Postcards 2024

cenicaña

Solutions for more sustainable factory processes

CeniCristal

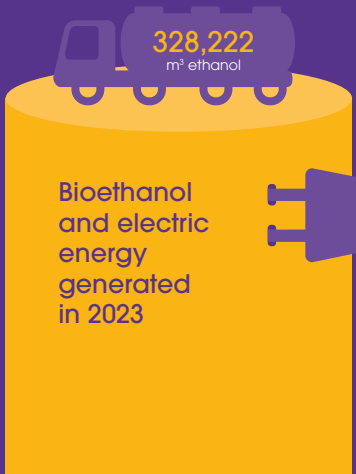
CeniProf

CeniMol

DataCane

cenicaña

Contributions to energy transition



1,710,445 MWh

This amount is enough to provide the system with sufficient energy to meet the demand of a population of 543,000.

Potential coproducts

Biogás

Produced from sugarcane press mud, vinasse agricultural crop residues and bagasse

To replace one of these products

Electric energy	Diesel	Natural gas	LPG
9%	22%	41%	2.2 times

% corresponds to the consumption of Valle del Cauca that could be replaced with biogas.

* Based on experimental percentages measured by Cenicaña and reported by technology providers.

Top five sugarcane varieties 2023

	Area
CC 01-1940	28.24%
CC 05-430	23.90%
CC 85-92	12.78%
CC 11-595	6.61%
CC 11-600	3.54%

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caña biodiversa

by cenicaña

GREEN CLIMATE FUND

CAF DEVELOPMENT BANK OF LATIN AMERICA

Alianza Bioversity & CIAT

CGIAR

AGROSAVIA

ASBAMA

asocaña

Asohofrucol

augura

Cenicafé

cenicaña

CIMMYT

CIPAV

FEDEARROZ

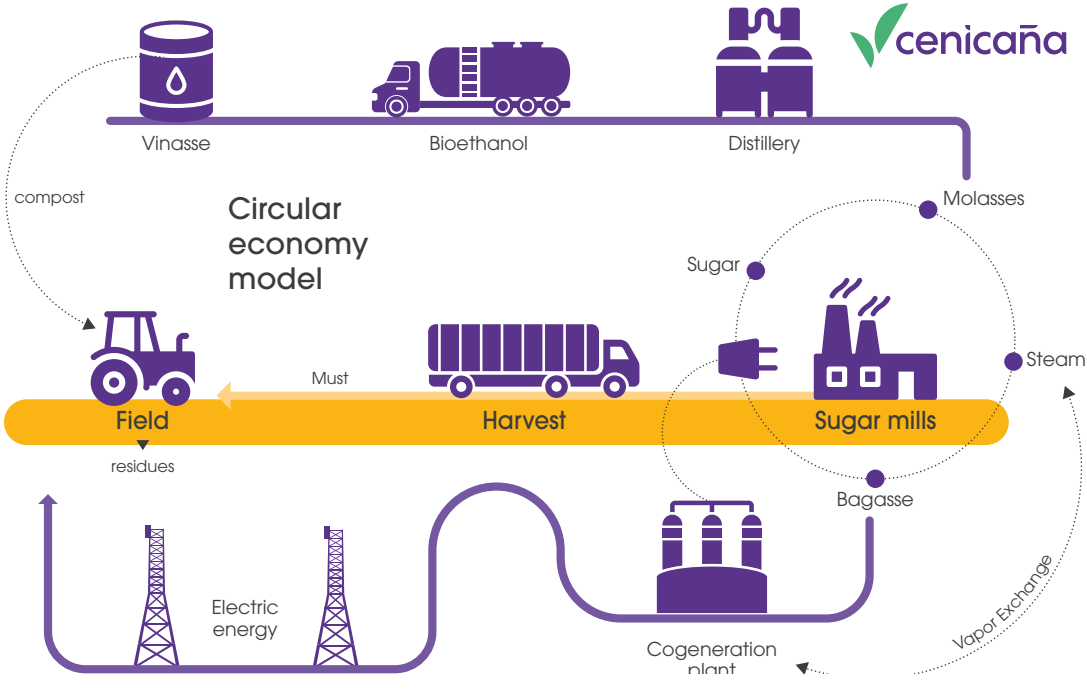
Fondo Nacional del Arroz

FEDEGAN

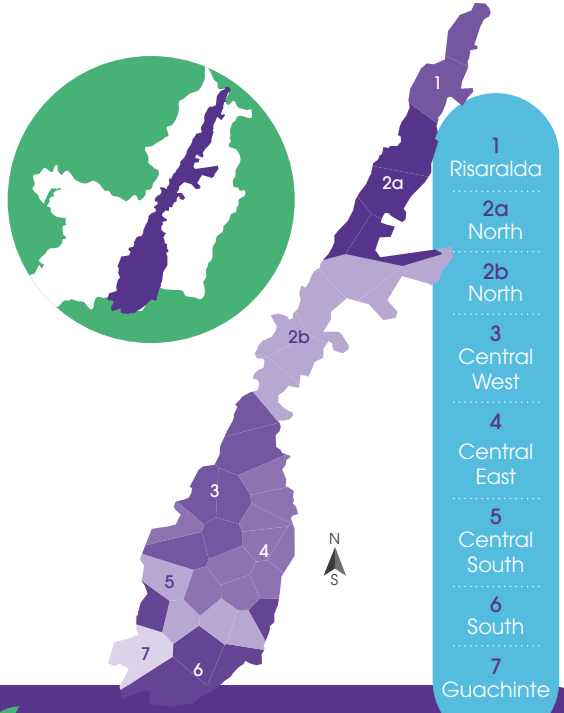
fedepapa

Fenalce

Cultivamos Seguridad


cenicaña
Vinasse
Bioethanol
Distillery
compost
Circular economy model
Molasses
Sugar
Steam
Must
Field
Harvest
Sugar mills
residues
Bagasse
Electric energy
Cogeneration plant
Vapor Exchange

Climatic zoning of the Cauca river valley



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integra

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Automated Meteorological Network (RMA in Spanish)

42
RMA stations

31 years recording information

Watersheds Network

13
watersheds monitored

rain gauges and 10 river-level sensors

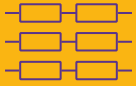
Air Quality Network

07
stations monitored

stations monitored in real-time

Agroindustry 4.0 Networks

Internet of Things Network



40
IoT stations

550 IoT devices connected

Real-time Kinematic Network

17
RTK stations

6 position-transmitter stations

Types of data


Meteorological.


Water monitoring.


Air quality


Matric potential, pluviometry, and factory processes.


Real-time geopositioning.

gotas

by cenicaña

Cenicaña's mission is to contribute to Colombia's sustainable development through innovation in the sugarcane agroindustry.

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Water resource monitoring and environmental restoration

Line of work that focusses on studying conservation and environmental restoration actions carried out by the sugarcane agroindustry in watersheds as measures to adapt to climatic variability.

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Field indicators

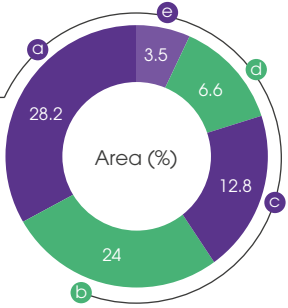
of the agroindustry
for 2023

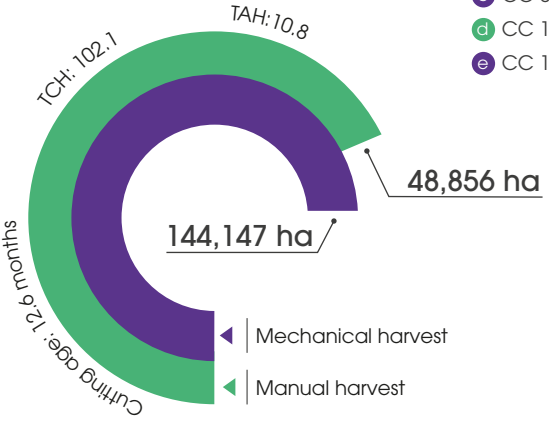
237,169 ha
Planted area

Most planted varieties

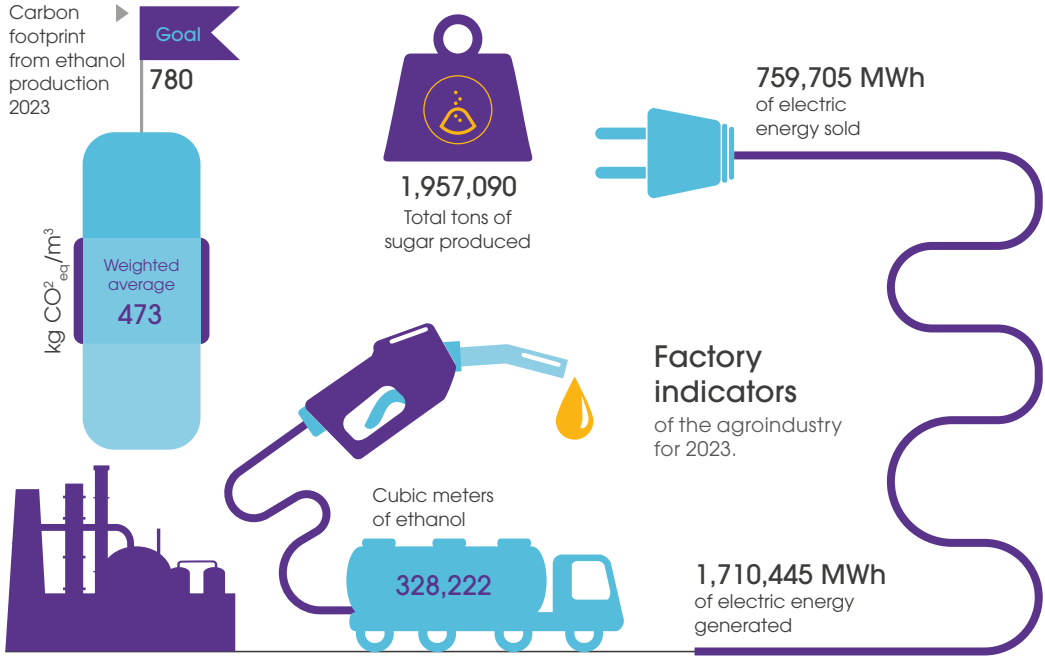
a	CC 01-1940	65,296
b	CC 05-430	55,254
c	CC 85-92	29,554
d	CC 11-595	15,292
e	CC 11-600	8,175

Area (ha)





5
Average Number of waterings


Carbon footprint from ethanol production 2023
Goal
780
kg CO^2_{eq}/m^3
Weighted average
473
1,957,090
Total tons of sugar produced
759,705 MWh
of electric energy sold
Factory indicators
of the agroindustry for 2023.
Cubic meters of ethanol
328,222
1,710,445 MWh
of electric energy generated