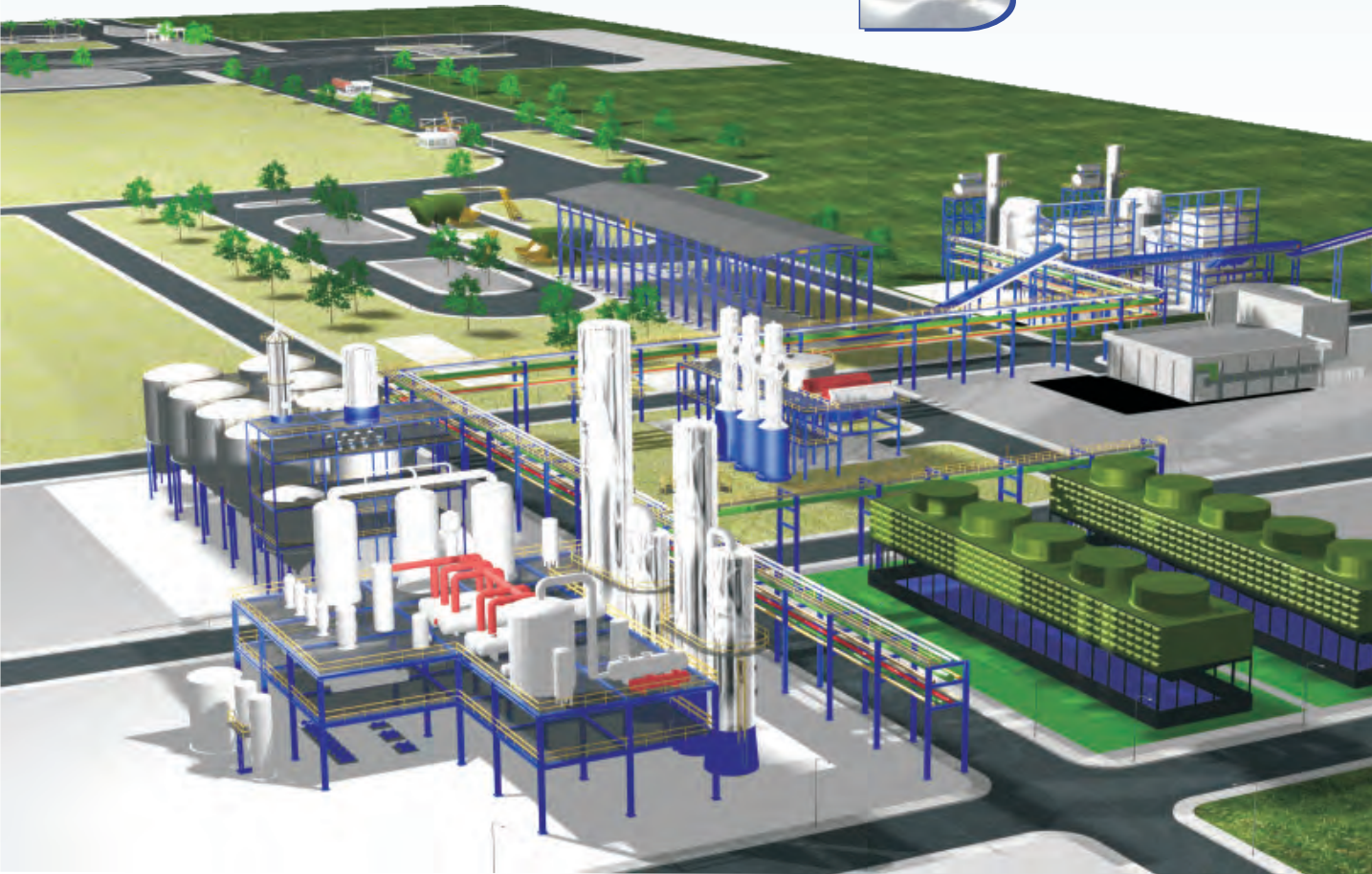
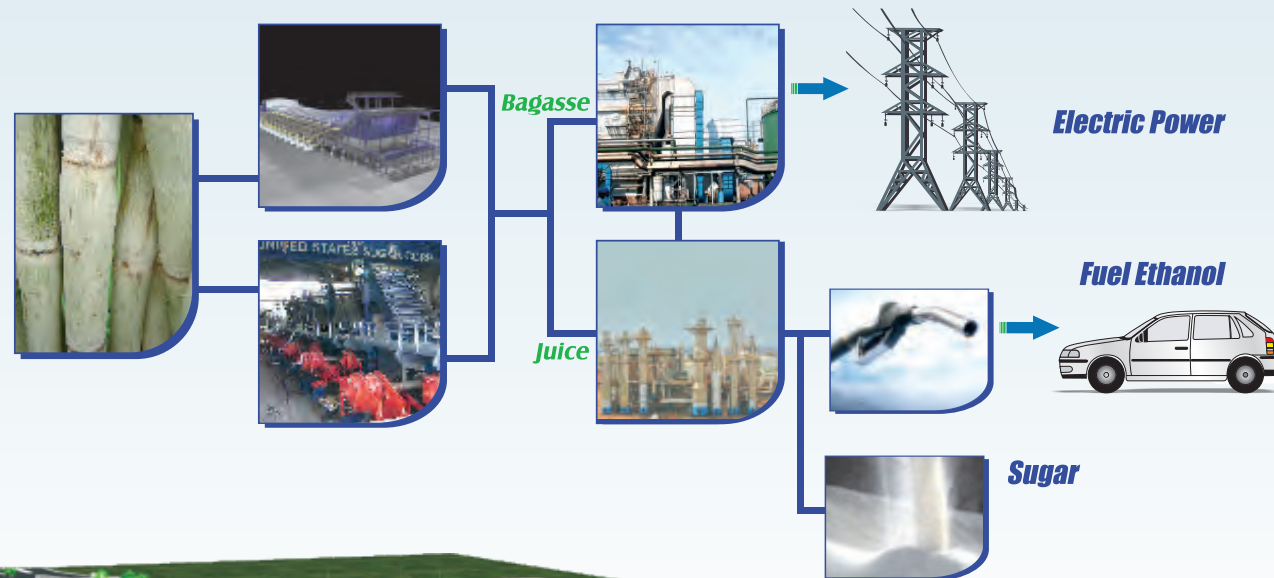


“Turn key” Plants

Dedini supplies Green Field plants on “Turn key” basis, with maximum advantage of raw material and maximum production of clean and renewable energy.

Dedini supplies:

- Sugar and Ethanol Plants
- Ethanol Plants
- Sugar Factories
- Sugar Refineries (Amorphous/Granulated)



Dedini guarantees a future full of energy.

Dedini is the largest supplier of complete plants in Brazil and one of the largest in the world for the production of:

BIOENERGY
DEDINI

BIO DIESEL
DEDINI

BIO ETHANOL
DEDINI

BIOELECTRICITY
DEDINI



You can bet on the future,
Dedini guarantees the energy to get you there.

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Phone: +55 (19) 3403-5470 Fax: +55 (19) 3403-3439
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DEDINI
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Fuel Ethanol Plants

BIO-Equipments and Plants

Dedini

Dedini is a company with 100% Brazilian capital, operating in the custom made capital goods sector since 1920.
With its own technology and from internationally renowned companies, Dedini operates at excellent levels of quality in engineering solutions and supplying of complete “Turn key” plants in several market sectors.

Facilities

Dedini's Factory Complex consists of 6 Industrial Units, located at 4 strategic points in Brazil.



Market Served

- Sugar & Ethanol
- Food, Juice & Beverages
- Biodiesel
- Pulp & Paper
- Breweries
- Cement
- Energy & Co-gerenation
- Fertilizers
- Hydroelectrical
- Mining & Metals
- Oil, Gas & Petrochemical
- Chemical
- Steel Works
- Wastewater Treatment Plants

Products & Services

- “Turn key” contracts
- Industrial Erection
- Cast Parts
- Industrial Automation
- Dished Ends



Engineering Solutions for all Types of Ethanol

- Fuel Ethanol
- Neutral Ethanol
- Fine Ethanol
- Anhydrous Ethanol



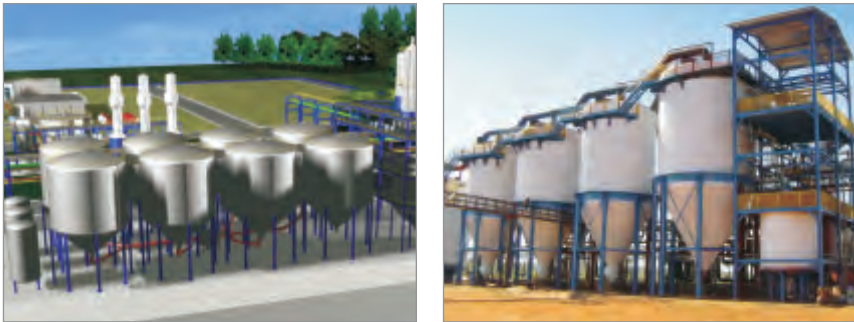
Juice Treatment

- Heaters
- Evaporators
- Settlers
- Filters



Fermentation

- Batch
 - Continuous
 - Flexible
- Continuous
- Batch



Distillation

- Conventional
- Flegstil

- Types of Trays
 - Caps
 - Valve
 - Sieve Trays



Split Feed

Ethanol distillation is divided into two systems:

Distillation under pressure: with steam feed
Vacuum Distillation: Operates by Thermal Cascade

- Possible to use exhaust steam;
- Completely automated;
- 1.5 kg steam/liter Hydrous Ethanol.



Distilleries for AEHC production using the Split Feed technology

Dehydration Technology

SIDEX
DEDINI

- Extraction via cyclohexane as dehydrating agent.

SIDPEM
DEDINI

- Dehydration System via Molecular Sieve.



Vinasse concentration

- Possibility of using exhaust/bleed steam in the stillage concentration unit;
- Possibility of energy integration with the distillery (without extra steam consumption).
- Reduction in the quantity of stillage of approx. 13l/l ethanol for up to 0.8 l/l ethanol;
- Use of concentrated stillage as fertilizer;
- Suited to environmental demands;
- Concentrated stillage application in distant areas from the industry and in lands no longer used.
- Reused of water removed from stillage in the industrial process.



Partner:



Tanks for Ethanol and Molasses

Capacities

40.000 m ³
30.000 m ³
20.000 m ³
10.000 m ³
5.000 m ³

