



omnicane
Integrating Energies

ACP Climate Action: Now and Tomorrow

Omnicanne Carbon Burn-Out

Presented by Jacques M. d'Unienville, CEO

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Sugarcane is one of the most versatile and productive sources of renewable energy under the sun.

At Omnicane, we specialise in making *optimal* use of the *whole* cane. We pride ourselves on our unique systemic ability to carry out all our operations *in integration*, with resulting optimal efficiency and minimal waste.



Refined Sugar



Electricity



Bioethanol

About Omnicane



Omnicane's primary activity consists in:

- The cultivation of sugarcane

And the production of:

- Refined sugar
- Bioethanol
- Thermal energy and electricity

Our Mission

We strive to make the utmost sustainable use of the natural resources at our disposal, for the benefit of all.

Our Vision

To be an inspiration for sustainable development in our operations.



Our Fully Integrated Flexi-factory Complex

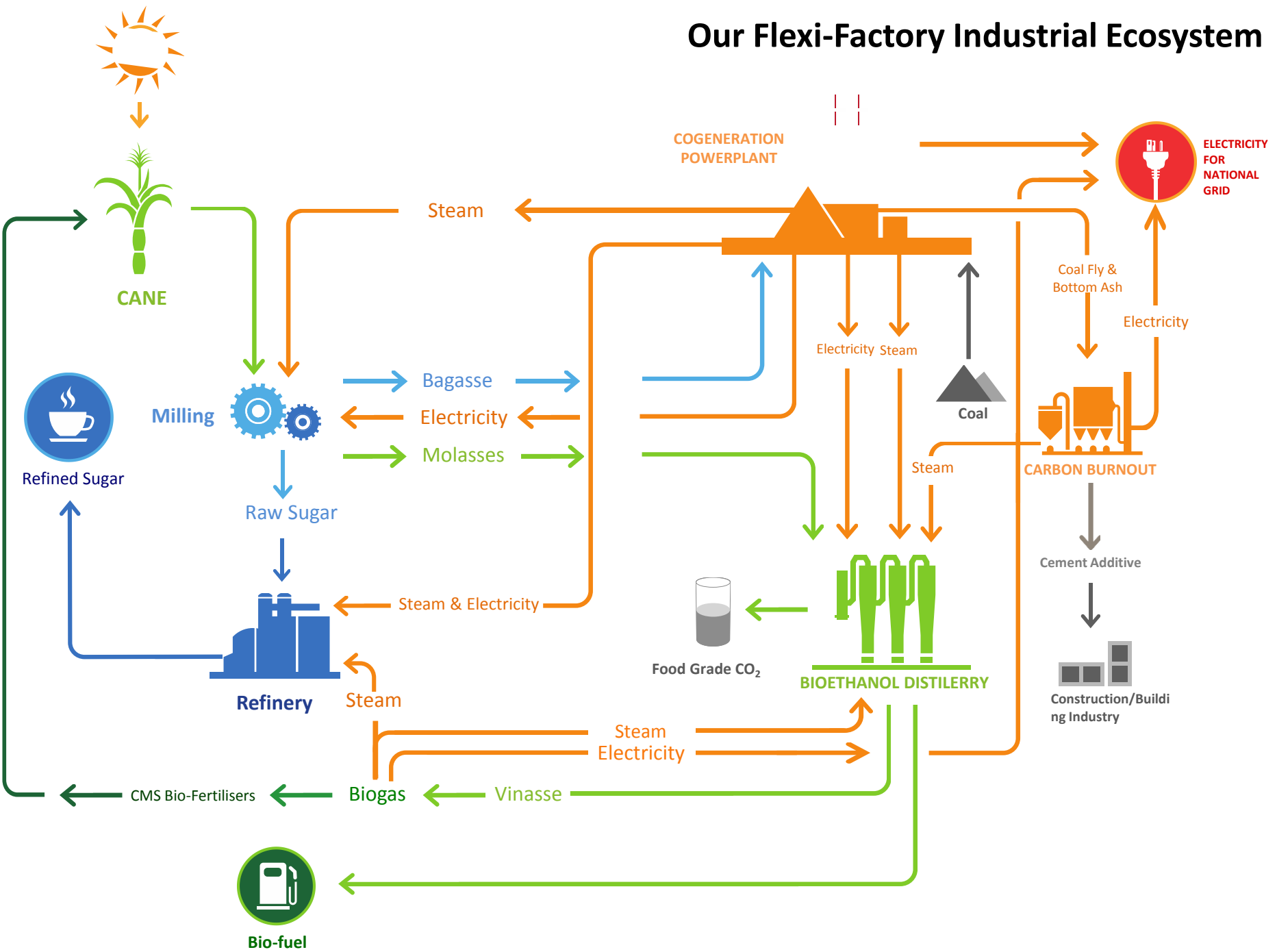


Our Industrial Ecosystem

Our flexi-factory complex translates our resolve to plan and execute our entire production as an integrated whole, for optimum flexibility, maximum efficiency, and, above all, minimal waste, notably by using one operation's waste as another's raw material.



Our Flexi-Factory Industrial Ecosystem



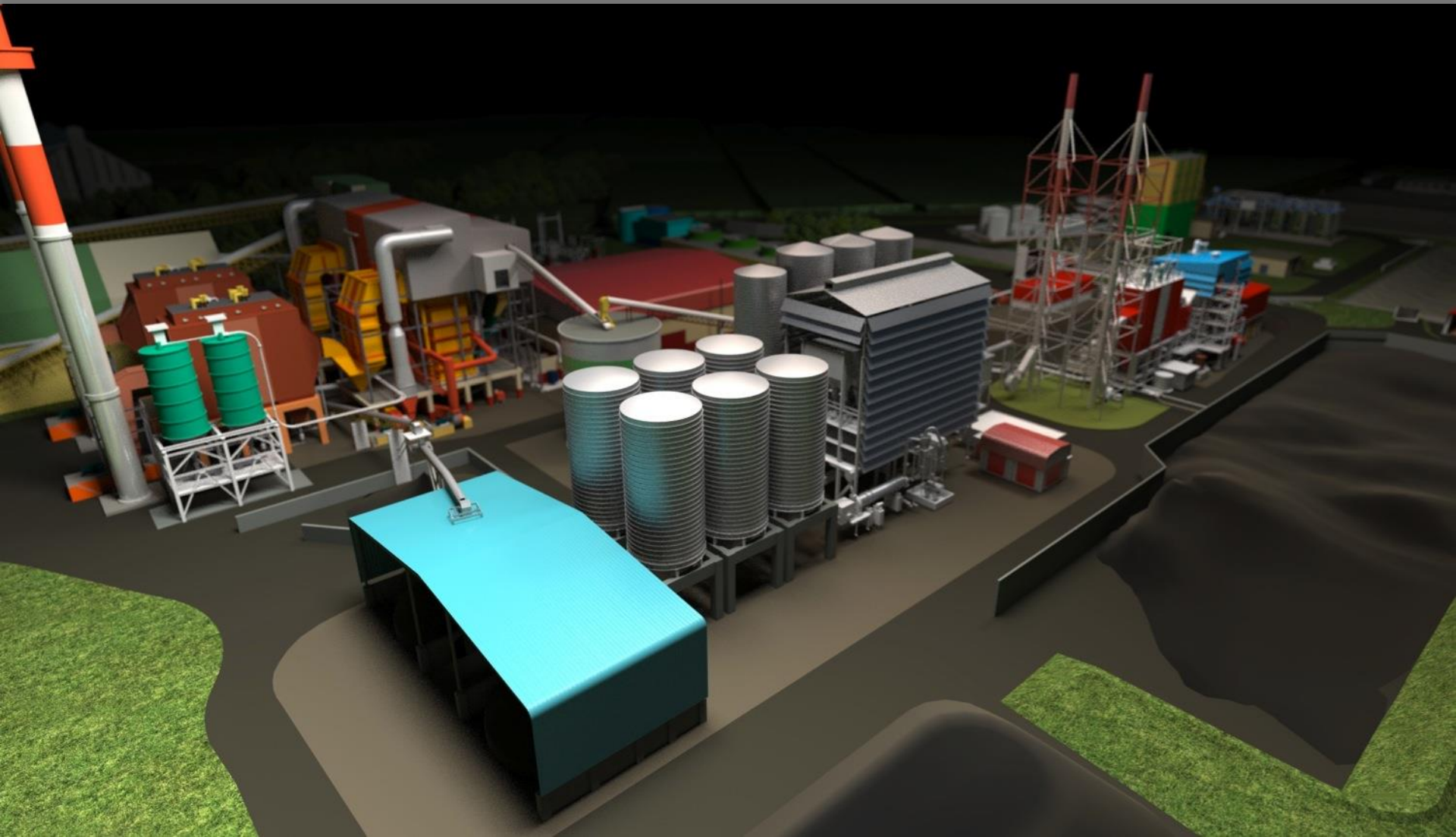
Cement Statistics

- The world consumes around 4.3 billion metric tonnes of cement in a year
- Cement production is growing by 2.5% annually
- Mauritius imports 600,000 tonnes of portland cement each year

GHG Emissions from the Cement Industry

- The production of cement on its own represents approximately 5% of all man-made CO₂ emissions
- To produce cement, limestone and silica have to be heated to more than 1400°C to obtain clinker
- To reduce their impact on the environment, industrialists diminish the use of clinker, replacing it partially by coal combustion residues or fly ash
(this is one of the 60 best practices against climate change, according to the AFD)

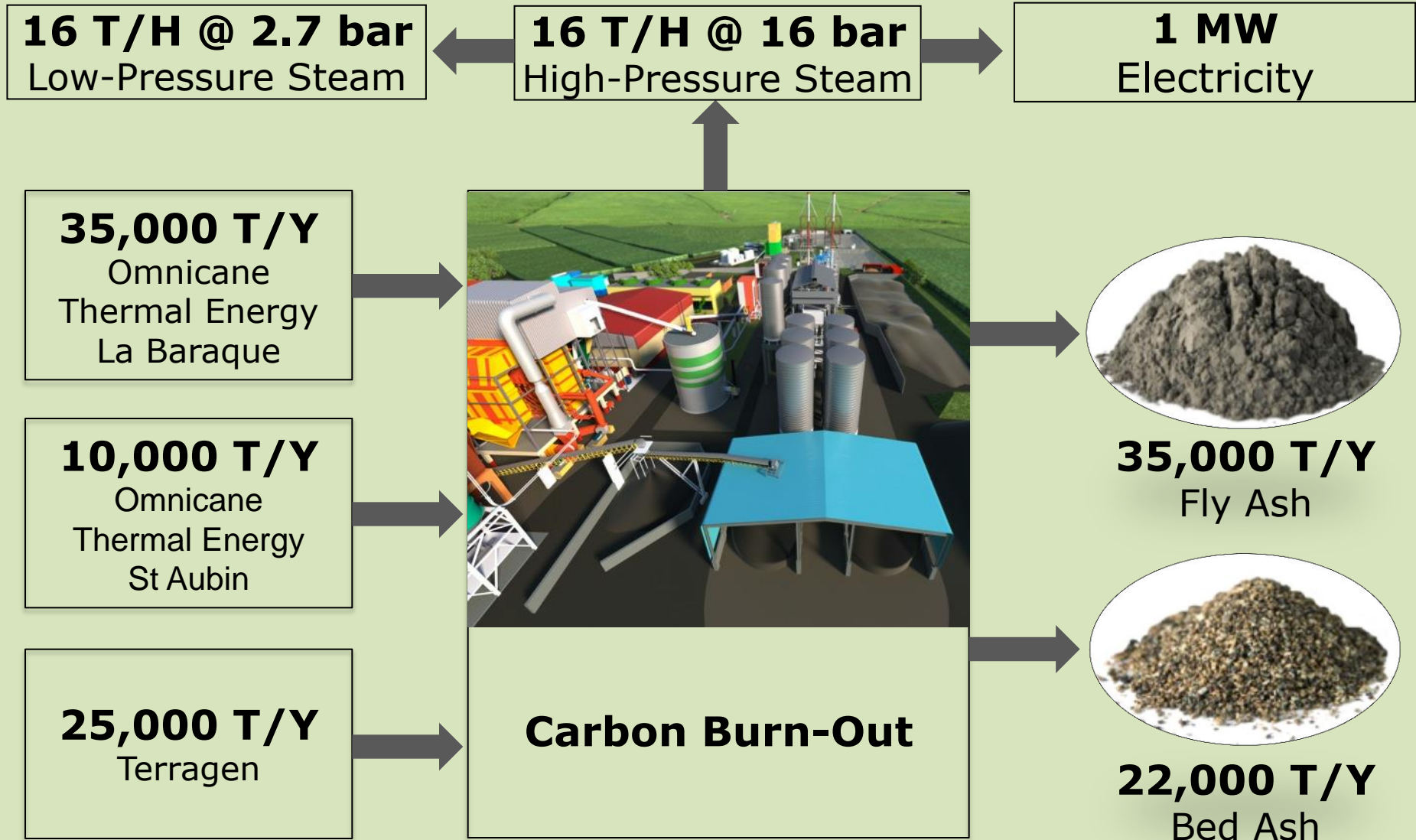
Omnicane's Carbon Burn-Out Unit



Annual Coal Ash Production

- Omnicane Thermal Energy Operations (La Baraque) produces 35,000 T/Y ash
- Omnicane Thermal Energy Operations (St Aubin) produces 10,000 T/Y of ash
- Terragen produces 25,000 T/Y ash

Process Summary



Quality Standards

- Our fly ash comply with the European quality standard EN450-1 which guarantees a durable concrete
- The CBO will reduce the carbon content of the cogeneration power plant's fly ash from 20% to 7% LOI (loss-on-ignition), with the re-burning of excess carbon

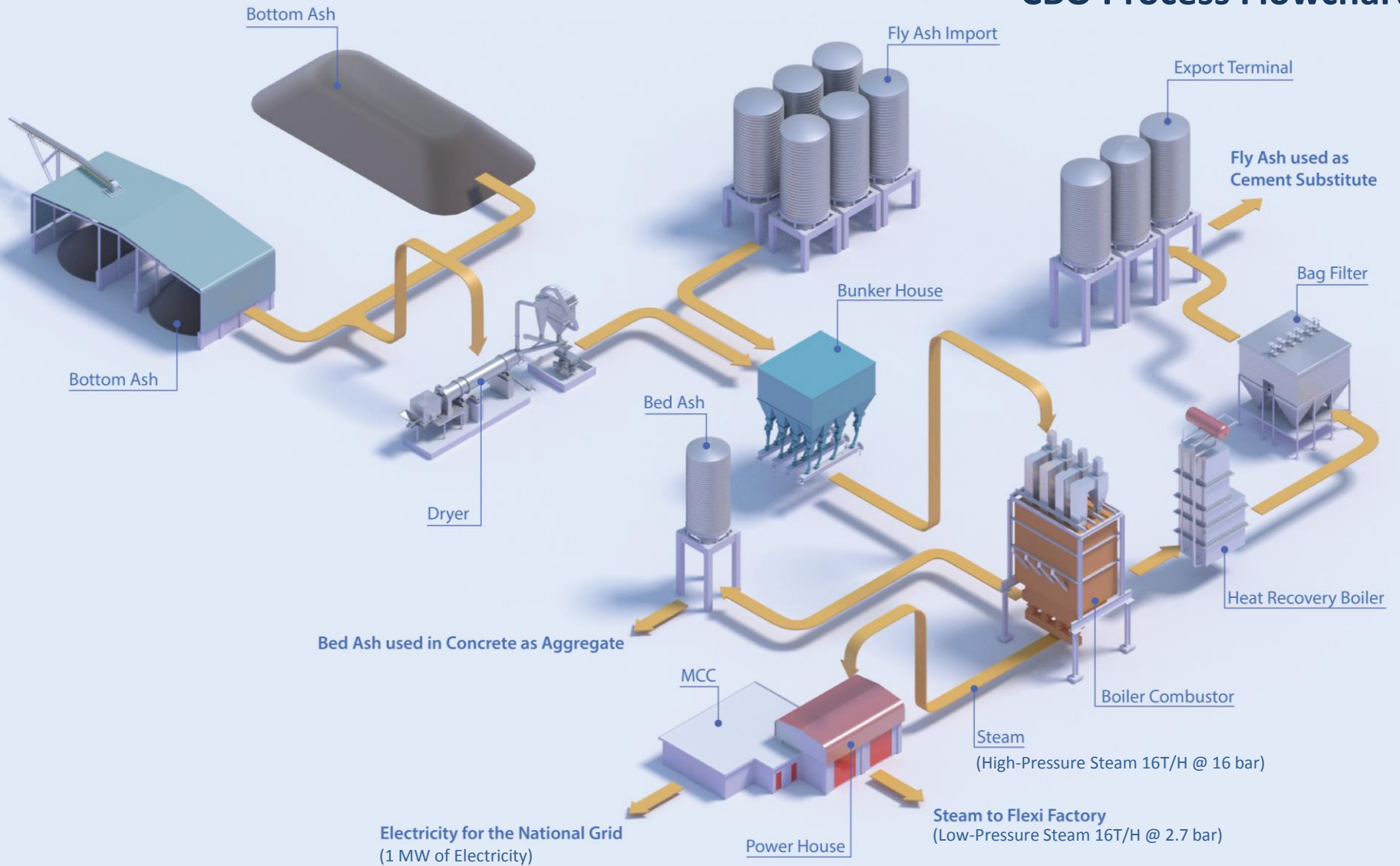
Environmental Benefits of the CBO

- No need for landfilling of ash hence no dependency on land availability
- No waste as the ash becomes a raw material for the construction industry
- Reduced CO₂ by 25,000 tonnes yearly from the partial avoidance of cement import and production

Environmental Compliance

- Re-use of fly ash in cement was recommended by:
 - The Strategic Environmental Assessment of MAAS in 2007
 - The Technical Advisory Committee on Coal Ash Management in 2009
- The EIA for the CBO was obtained in May 2014
- The Environmental Monitoring Plan of the CBO has been approved by the Ministry of Environment in August 2015
- The Minister of Environment visited the CBO in November 2015

CBO Process Flowchart



Site Plan



Site Progression



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Completion 31 August 2016



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Electricity



Bioethanol

Omnicanne's Collaborations with EIB



2009



Refinery

2013



Mon Trésor
Smart City Project

2013



Holiday Inn

2014



Bioethanol
Distillery



Financials

Current exchange rate (MUR to USD)	35.00
Estimated Cost (MUR)	735,000,000
EQUITY (40%)	294,000,000
DEBT (60%)	441,000,000

EQUITY

	Omnicanne Thermal Energy Operations (La Baraque)	Omnicanne Thermal Energy Operations (St Aubin)	Terragen
% Share Contribution	50%	15%	35%

DEBT

EIB Loan (MUR)	322,000,000
MCB - AFD Green Loan (MUR)	119,000,000
Total	441,000,000



Refined Sugar



Electricity



Bioethanol

Thank you



Refined Sugar



Electricity



Bioethanol

www.omnicane.com