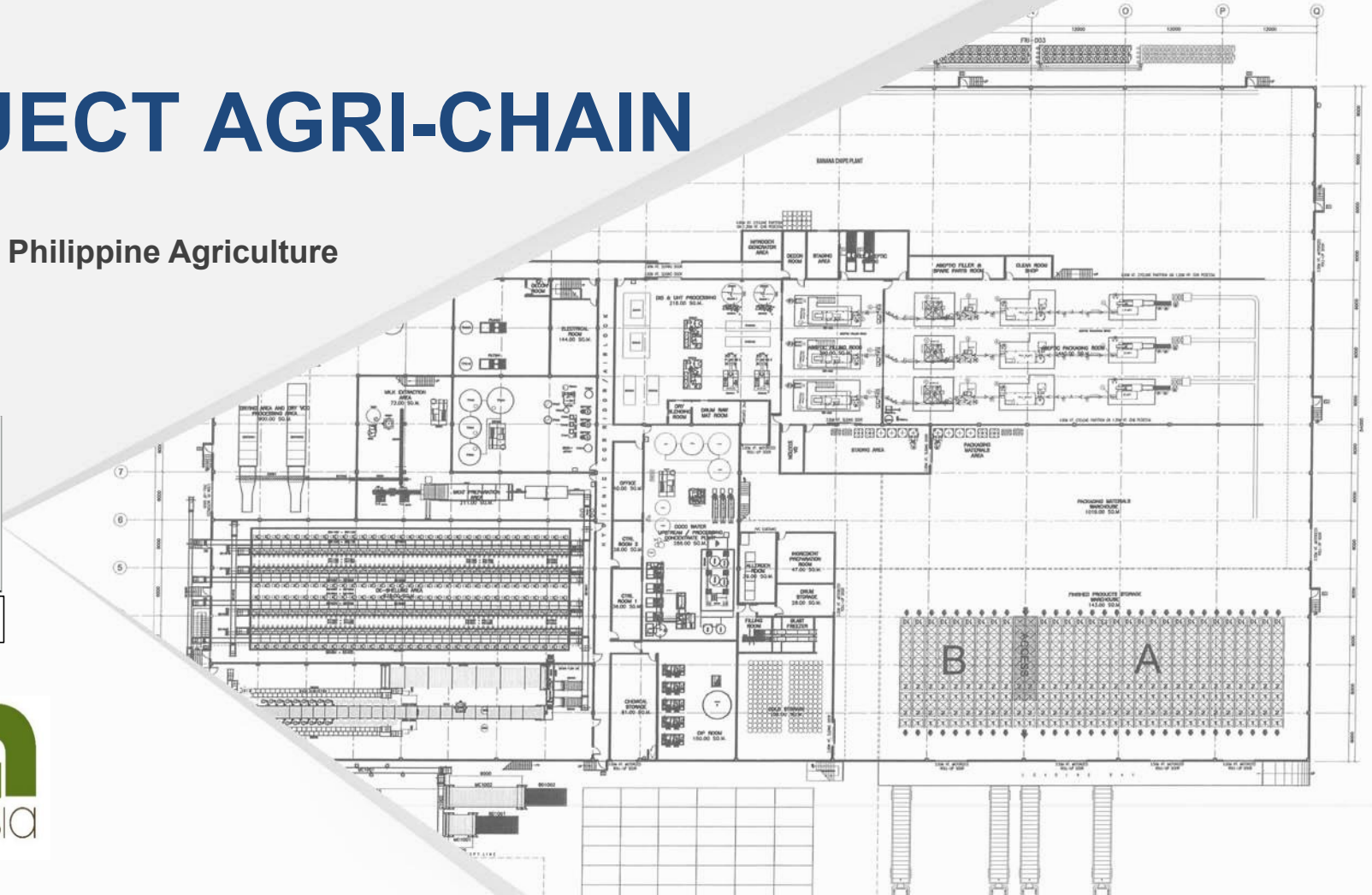
PROJECT AGRI-CHAIN

Modernizing Philippine Agriculture



OBRA PALMA

nu agri asia

Project Pillars

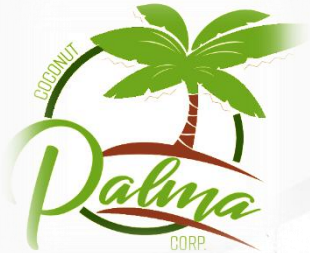
Advanced Technology

Uplift Farmers

OBRA PALMA

nua
nu agri asia


estrella
COCONUT CORPORATION


COCONUT
Palma
CORP.


AURORA


MARAWI
COCONUT CORP.


Batangas


Corona
COCONUT


Maganda
COCONUT CORPORATION


mozcoco
Coconut and Mixed-Fruit
Processing

Project Overview

Integrated Food Terminal Complex

Infrastructure for high-value food processing

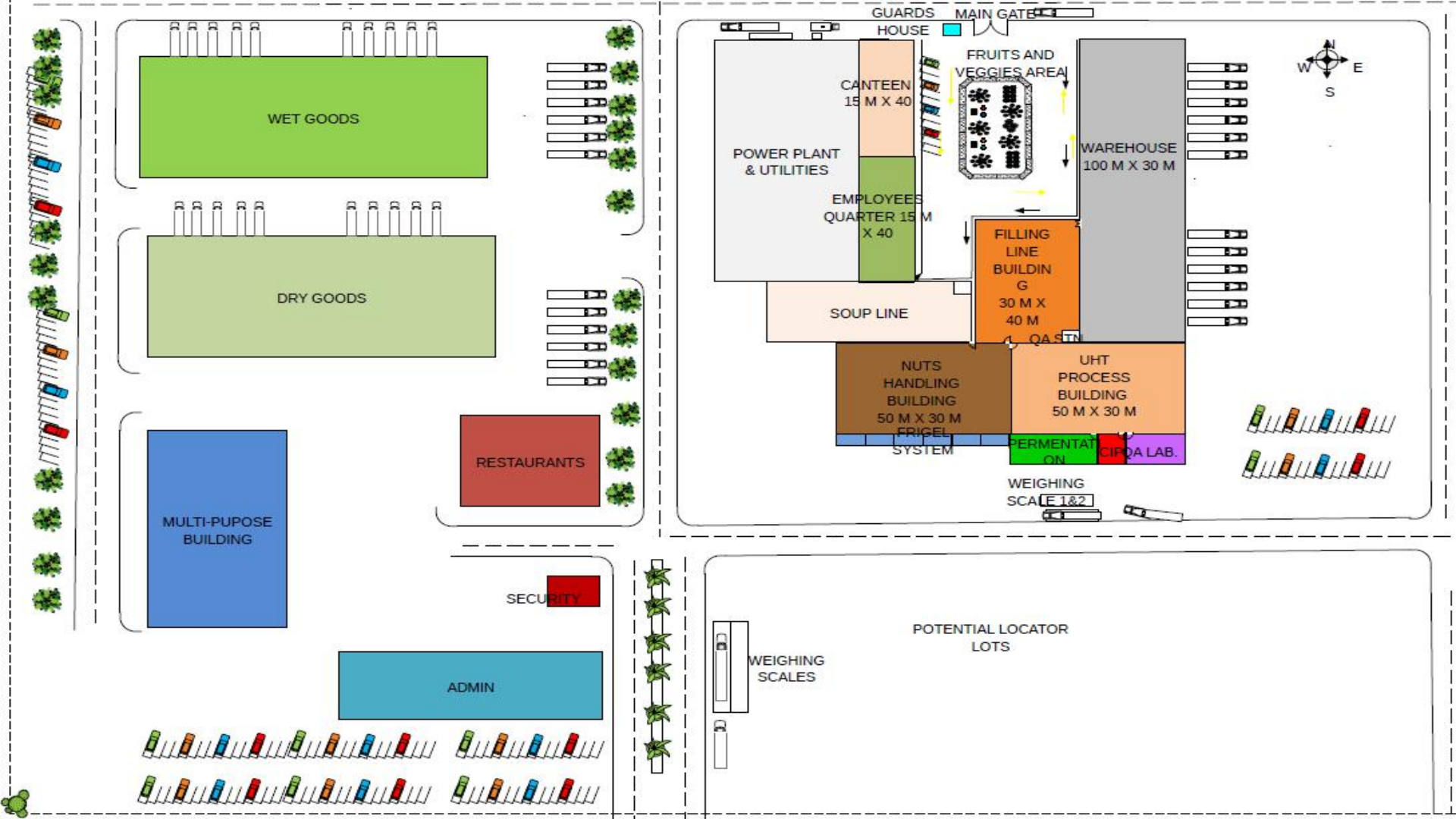
- Frozen and Refrigerated Storage
- 24/7 Stable Power
- Pure Elemental Water
- 100% Waste Remediation
- R&D and Sanitary Lab
- Logistics Support
- Canteen / Laundry / Security

Project Overview

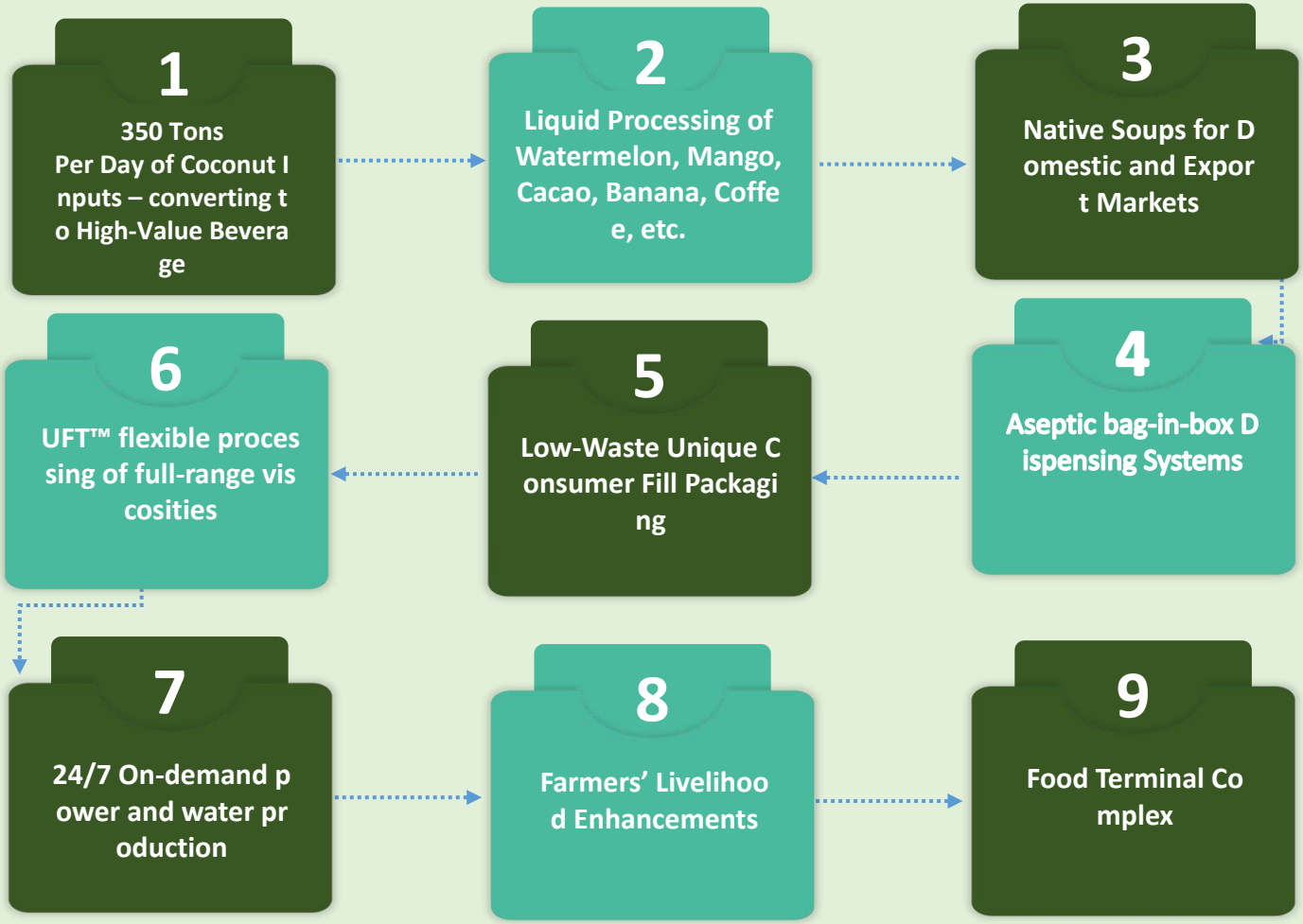
High-Value, fruit and vegetable processing facility

- Primarily focusing on **350MT per day input of de-husked coconuts**, Each location will produce coconut non-dairy beverages, coffee creamer, coconut water, coconut cream and flour.

- Each will also process fruit puree, 100% fruit juices, and pure vegetable soups **– all with 12-18 month ambient shelf-life** using the most advanced UFT© technology – and filled for consumers in exciting and innovative packaging


GUARDS HOUSE
MAIN GATE
FRUITS AND VEGGIES AREA
CANTEEN 15 M X 40
POWER PLANT & UTILITIES
EMPLOYEES QUARTER 15 M X 40
WAREHOUSE 100 M X 30 M
FILLING LINE BUILDIN G 30 M X 40 M
QA STN
SOUP LINE
NUTS HANDLING BUILDING 50 M X 30 M
FRIGEL SYSTEM
UHT PROCESS BUILDING 50 M X 30 M
PERMENTAT ON
CIP/QA LAB.
WEIGHING SCALE 1&2
N
W
E
S
WET GOODS
DRY GOODS
RESTAURANTS
MULTI-PUPOSE BUILDING
SECURITY
ADMIN
WEIGHING SCALES
POTENTIAL LOCATOR LOTS

Project Highlights



Why Are We Different?

Our Model is unique among coconut processing facilities.

01

Intercropping

The plant “de-risks” its dependence on 100% coconut and is therefore able to accept harvest that can be grown efficie ntly among the coconut trees. This includes, for example, banana at mid-level and watermelon on the ground.

02

Finance

Fully expanded financial model taking into account every variable of operating this type of plant. Designed by engi neers who have been in the industry for 30+ years.

03

Social Impact

The foundation of our model is to “uplift community”. And by doing so, we operate with fair labor and farmer practice s. The supply chain is determined by sustainable supply, not awarded to the lowest price available

04

Green Energy

Energy and fresh water production using plant liquid waste materials.

05

Earth-Friendly Packaging

Our consumer packages cut food waste by 10% and packaging waste by 80% compared to packages from similar fac tories (Tetra).

Project of the People – Social Impact

Our Model is unique among coconut processing facilities.

01

Higher Incomes through Intercropping / Training

Triples the income of the local farmer

02

Housing for the Poorest

Our project will build housing for the poorest farmers and workers near the plant site

03

Farmers as Stakeholders

Through the local cooperative, individual farmers will become stakeholders in the project and receive quarterly distrib utions. This will be based on the volumes of raw material provided to the plant

04

Mobile Medical Care

Mobile Medical, Dental and Eye care units will be established at no cost to the local farmers

05

Pay Off Trader Loans

This project will undertake a program to rid the farmers from their indenture of local traders

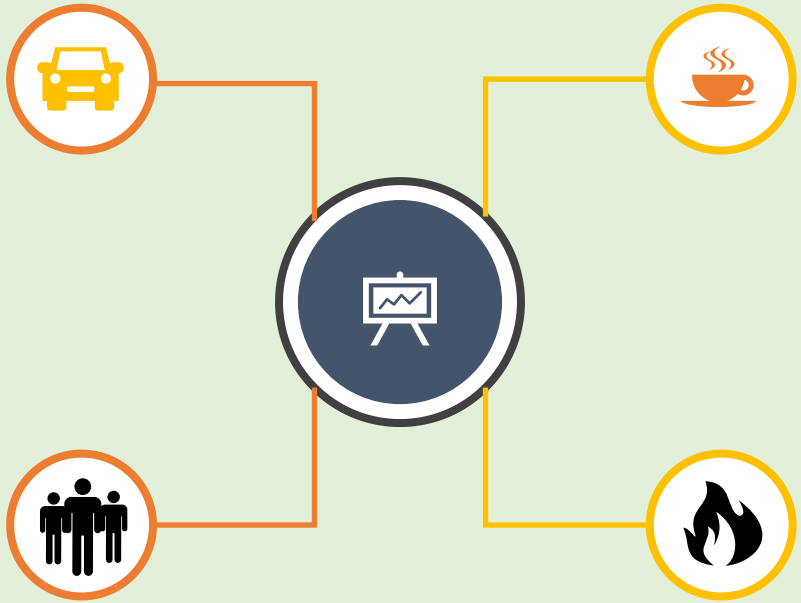
Project Investment Impact

Anchor for Economic Development

Infrastructure projects such as ports, barging, roads, energy, waste management, cooperative recovery, etc., will be accelerated as a result of the design and operation of this plant.

Benefits to Labor Supply

this project will spur 1500 direct jobs and positively affect more than 6000 people both directly and indirectly in the region



Farmer & Food Security

This conversion into high-value **intercropped fruit & vegetables** will bring abundant returns to farmers of intercropped lands – lands that have traditionally only produced low-value copra for regional oil mills

Uplift Community

The result of this project is expected to “uplift community” and help maintain peace & order.

Competitive Advantage - Technology

Our Model is unique among coconut processing facilities.

01 Newly designed UFT™ system allows for the natural and organic processing of foods/drinks without u se of sugar, acid, stabilizers or chemicals. Allows for operation 22 hours per day.

02 Digital Inline Blending plus MST technology.

03 Low-waste packaging system, using flexible EcoLean consumer packages.

04 Aseptic bag-in-box latest technology for advanced dispensing systems which remain shelf-stable for many weeks or months

05 Clean, Green, Energy and Water Production – Carbon Negative

Technology Advancement

Developing eco-friendly dispensing solutions – new wave of packaging

only low-acid, aseptic t ap that can safely dispe nse liquid foods and be verages continuously fo r weeks without refrige ration.

UFT™ Technology
Digital Inline Blend ing
MST

Capacity up to 7,500 packages per hour

Technology Advanced System – UFT™

Our processing concept is based on flexible liquid processing.

The plant will operate four filling lines:

- A foodservice filling line that will enable cutting-edge bag-in-box technology for dispensing lo w-acid beverages while remaining aseptic (stored ambient) for many weeks
- Two consumer packaging lines with Unparalleled format which will allow for 200, 250, and 35 0 ml pouches
- A consumer packaging line with unparalleled format which will allow for 500 ml and 1 liter po uches

JCS Process Systems

Whether it is coconut water, coconut cream, fruit juice, vegetable soup or other liquids – it can al l be processed through the same set of direct & indirect UHT lines. This system is designed to m aximize the quality and flavor of the raw material without using any preservatives, stabilizers, su gar or acidification.

JCS Innovation in the Real World:

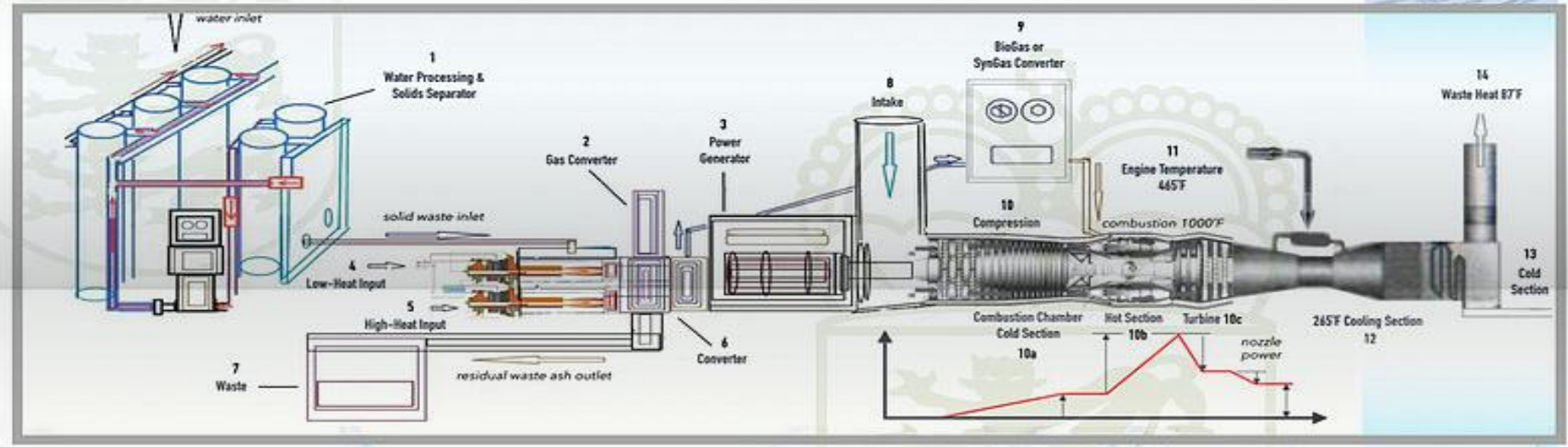
- Low and High Acid Aseptic Processing
- Digital Inline Blending
- Pasteurization and UFT Pasteurization
- Smarter Batching and Line Distribution


JCS Toolbox© - DIB™

Competitive Advantage – Green Energy

- 24/7 Stable Power Production at 5 Megawatts that is 100% Green Baseload Renewable Energy
- No more Brown-outs and NO harmful emissions!
- Production of large volumes of Potable water and steam
- Production of Carbon Free power direct from gasification to power turbines
- A permanent 100% “Green” Sustainable Solution for Sewage, Garbage and all Wastewater treatment
- A fully scalable, cost effective Green Technology that is quick to implement, and one that works 100 % with the Environment, not against it.

Langenburg Technologies Water–Power Processing



1 Water Processing & Solids Separator
2 Gas Converter
3 Power Generator
4 Low-Heat Input
5 High-Heat Input
6 Gas Converter
7 Waste (solid)
8 Intake
9 BioGas/SynGas Converter
10 Compression/Combustion
10a Combustion Cold Section
10b Combustion Hot Section
10c Combustion (turbine)
11 Engine Temperature
12 Cooling Section
13 Cold Section
14 Waste Heat

The Water Processing & Solids Separator **(1)** accepts waste slurries comprising solids, water and other liquids where all solids are filtered and separated from all liquids. Solids are expelled into the solids processor having Low-Heat Input **(4)** and High-Heat Input **(5)** sections for converting solids into inert ash, and also for evaporating any/all residual liquids exiting the Gas Converter **(2/6)**. Residual Waste **(7)** ash is held for later removal and disposal. Gaseous material exiting the Gas Converter **(2/6)** enters the BioGas or SynGas Converter **(9)**, where it is converted to organic or synthetic gas – primarily Hydrogen. Intake **(8)**-air is under Compression **(10)**, within the engine's pre-combustion stage at the Combustion Chamber Cold Section **(10a)**. The engine's Hot Section **(10b)** is the combustion chamber, where temperatures reach about 1000°F. The overall Engine Temperature **(11)** remains about 465°F. A controlled flow of non-combustible SynGas produced by the BioGas or SynGas Converter **(9)**, regulates the ambient temperature of the engine's Turbine **(10c)**, in which the turbine's blades drive a shaft connected to Power Generator **(3)** to produce electrical power. From the engine's Hot Section **(10b)**, and Turbine **(10c)**, gases exit and expand through the engine's exhaust nozzle, then into the Cooling Section **(12)** where the exhaust temperature is reduced to about 265°F. Within the Cold Section **(13)**, water vapor absorbs any Waste Heat **(14)** that is reduced to about 87°F, which is ejected into the atmosphere. Not shown in the schematic (for clarity) are feedback loops carrying extracted heat and unburnt gases into the engine's combustion chamber – Hot Section **(10b)**, for reburning.


LANGENBURG
technologies, llc
Creating the Future with the Power of Water™

Foodservice Output

Focusing on creating ready to eat (RT D) liquid products derived from coco nut, and other fruits & vegetables -- i ntercropped and certified as organic, kosher and halal.

All-natural ingredients processed sustainability and within food safety guidelines for export to USA, EU, Australia

Consumer Output

Coconut Drinkable Yoghurt

100% Fruit Juice & Puree

Vegetable Soups

Consumer Output

Coconut Cream

Coffee Creamer

Coconut Milk Beverage

Consumer Output

Coconut Flour

Shakes & Smoothies

Coconut Milk

RECAP

Modernizing Philippine Agriculture

The ultimate in flexible liquid processing technology

Sustainable agriculture desi gned to benefit the farmers and Indigenous Peoples

Green energy solution which is carbon negative

Low Waste consumer packaging

Aseptic foodservice dispensing units

Completely scalable model that can be placed anywhere

Total Project Cost Per Location

$55,000,000

All-Cash IRR 39.6%

Leveraged IRR 29.4%

Revenues	**100,030,577**
Cost of Good Sold	**46,490,118**
Gross Profit	**48,538,930**
Total Operating Expenses	**10,594,343**
EBITDA	**42,923,586**
Operating Income (EBIT)	**37,944,586**
Net Income	**30,736,314**

OBRA PALMA

Thank You

nu agri asia

Project Agri-Chain