



PT. AALBORG INDUSTRI INDONESIA₁

PT. Aalborg Industri Indonesia which is establishes in Indonesia since 1988 and before is Denmark company name PT. Aalborg Industries d/h Aalborg Sunrod and DAN Ketels establish more than 170 yeas ago to supply to world wide especially Heating System/ Boiler, Pressure Vessels and Heat Exchanger for the application as follows:

- Power Plant (Fired or HRSG)
- Oil & Gas industries
- Industrial/ Factory Processing
- Hotels
- Hospital
- Marine
- Water Treatment (WTP or WWTP)
- City waste and Industrial Waste Processing
- Oil & Gas Waste Processing including UCO (Used Cooking Oil)
- Mineral Processing especially low content Nickel (MPAL)

PT. Aalborg is the International company certified by :

- ✓ ASME (American standard mechanical Engineering) S, U, N, NB
- ✓ ISO 14001, ISO 18001, ISO 9001
- ✓ GB China (Guo Biao Hanzi)
- ✓ Lloyd's Register, NKK Japan



Pt. Aalborg Industri Indonesia which is formerly PT. Aalborg Sunrod Indonesia (year 1990) and PT. Aalborg Industries (year 1997)
The Scope of Manufacture from Reset/ FS, Plant desin & Engineering, Procurement, Fabrication, Construction, Commissioning and O &M Services

The product is very famous and major market share especially marine sector more than 90% word wide.

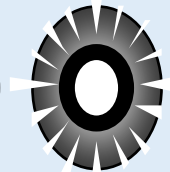
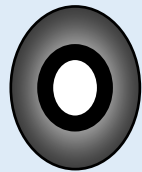
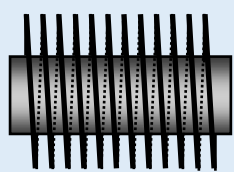
The type of products as follows:

1. Boiler (Oil, Gas, Biomass, Solar & Coal Fired)
2. Pressure Vessel
3. Heat Exchanger
4. Industrial equipment's
5. Spare part Production

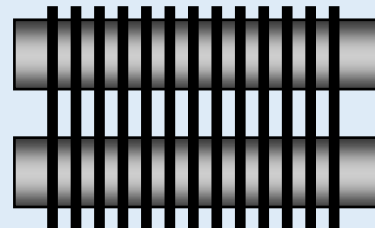
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Fixed & Retractable Soot Blower



Spiral wound fin tube: Solid fin Segmented fin



Double fin tube:



Workshop Facility



Spare Part Products

ESP Element

ESP Electrode

Super-heater Header
For Service & Repair

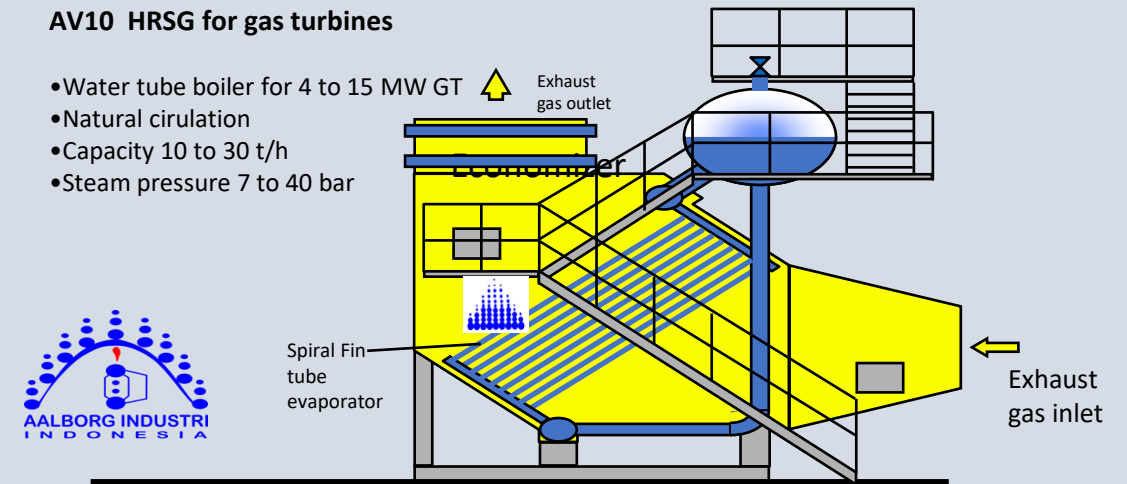
Membrane Wall

Types of Tube Product

Spiral Fin Tube

Gilled Fin Tube

Boiler Tube Stockiest



The energy is a part of our core business with several companies as PT. NWA (Nusa Wijaya Abadi), PT. ASI (Aalborg Servis Industri), PT. BBI (Berau Biological Industri), PT. Wergu Karya Sentosa etc.

The advanced technology and unique design is our strength point to get the market share. The energy sector, we divide into 7 divisions as follows:

1. Waste processing to Fuel from city waste

- ❖ We process the city waste & industrial waste to become fuel by cooking (not direct burning) and the end product is Syngas, Oil and Bio-char/ bio-coal.

2. PLTBm (Biomass Power Plant)

- ❖ The power plant with the fuel from bio-char (product from waste processing) and biomass product from agro industry

3. CSP (Concentrate Power Plant)

- ❖ The unique power plant by using solar source and oil thermal heater to get steam and drive the turbine generator. This kind of system can be redundant with Biomass power in order to get running 24 hours by using a common power system.

4. Oil waste processing

- ❖ The hi-tech and advanced technology, we provide profitable oil tank cleaning and waste to become oil, Bio char mixed Fertilizer and sand.

5. Oil Refinery & Bio Diesel

- ❖ The result from City waste processing and Oil tanks cleaning, we refined the oils to become Fuel for Engine or industrial purposes
- ❖ Bio Diesel processing from Fruit palm Oil

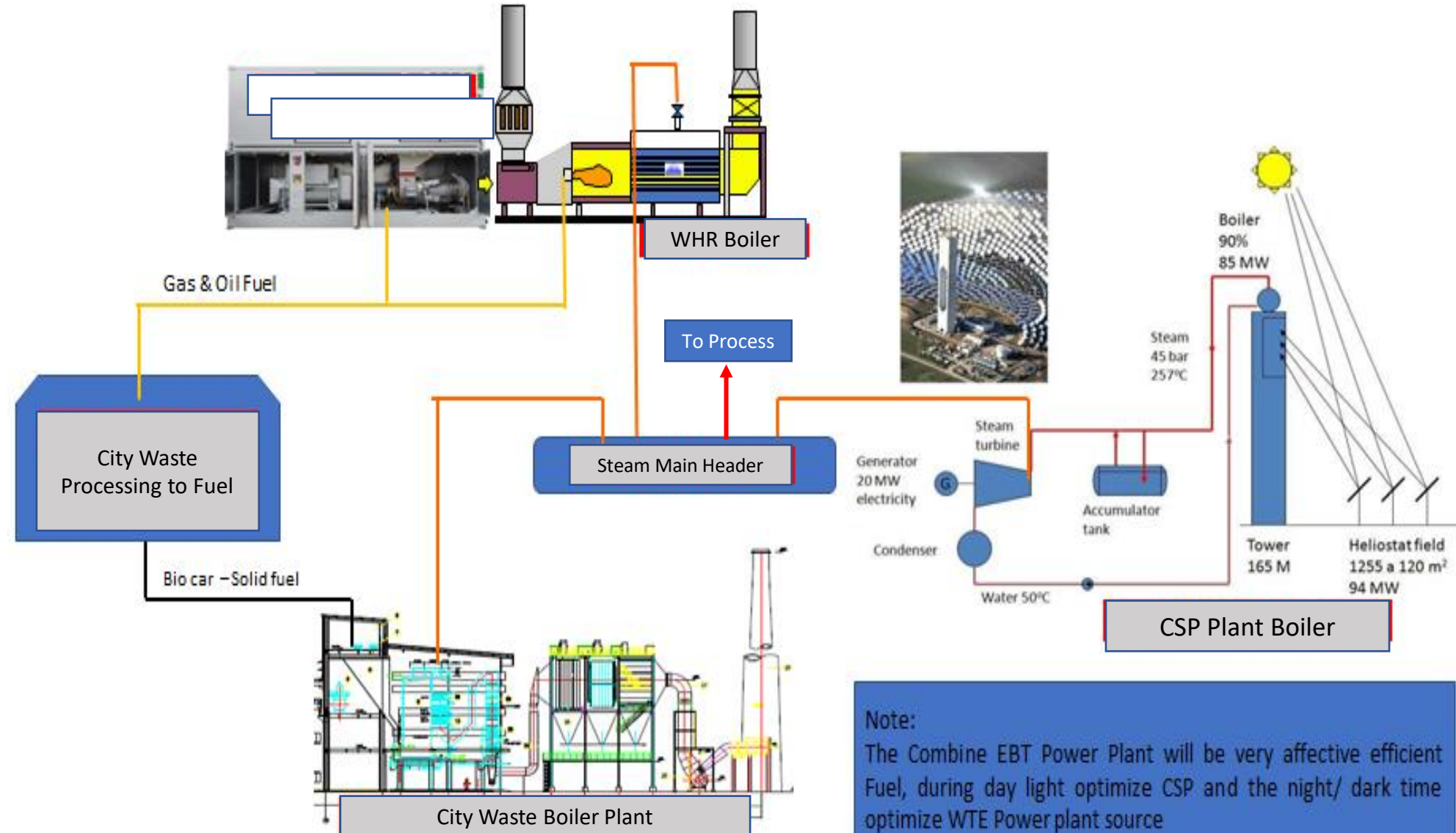
6. Coal Upgrading and De- Sulfurization

- ❖ By unique technology with the continuous process in order to de-sulfurization, also reducing the humidity in order to increase the Calorie value

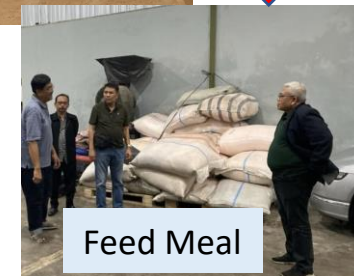
7. Coal Fertilizer

- ❖ With the continuous system and modern technology we can utilize low rank coal to become coal fertilizer with high humic acid between 35~65%.

Waste to Energy & UCO



UCO Process



The water treatment sector is provided by PT. All divided in to 3 division as:

- 1) Service water
- 2) Drinking Water
- 3) Waste water

The Service water division, We provide full system of water treatment plant which is processing the input of row water from the river or others.

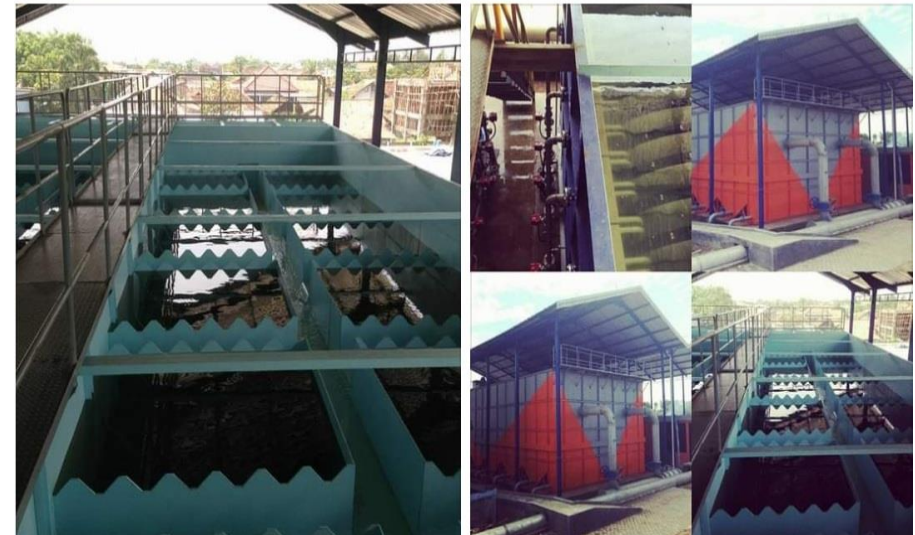
The processing system is compact hi-tect system using Korean technology, very efficient operation in Power saving 50% and the chemical efficiency is 30% and result of clean water is better than existing sytem at Babelan Bekasi.

By using Fiber disc filter before the reservoir, and control by Fibra disfilter Panel (FDP) the clean water fully control and the chemical will be effective and the NTU quality will be standard before supply to the Customers.. The WTP capacity 400 liter per second (2 x 200 lt per second)

The Drinking water division, we provide de-mineral water from the mountain at Kuningan West Java, The source is very good quality water and the mineral content below 1 ppm.

The water mainly for medical purposed especially for Cancer. Many people and clinic collecting the water for Cancer therapy.

The waste water division, we provide the water from the waste or recycling of oil tank cleaning. The water we use for utility of our Processing plant (Internal used) for the Boiler water or the cooling water



1. Mineral Sector – Low Content Nickel Ore MPAL – Medium Pressure Acid Leaching

Penggunaan Teknologi- dari MHP menjadi nikel dan kobalt sulfat

The Materials: H_2SO_4 ; Limestone; Hydrochloric Acid; Lime-milk; Sodium Hydroxide; Activated carbon; Low-pressure steam

MHP



H_2SO_4
Acid Leaching

Dissolving MHP (Mixed Hydroxide Precipitate) using an acid to obtain mixed solution of nickel sulfate and cobalt sulfate

Organic Solvent
Extraction

Purify nickel and cobalt sulfate products from impurities.

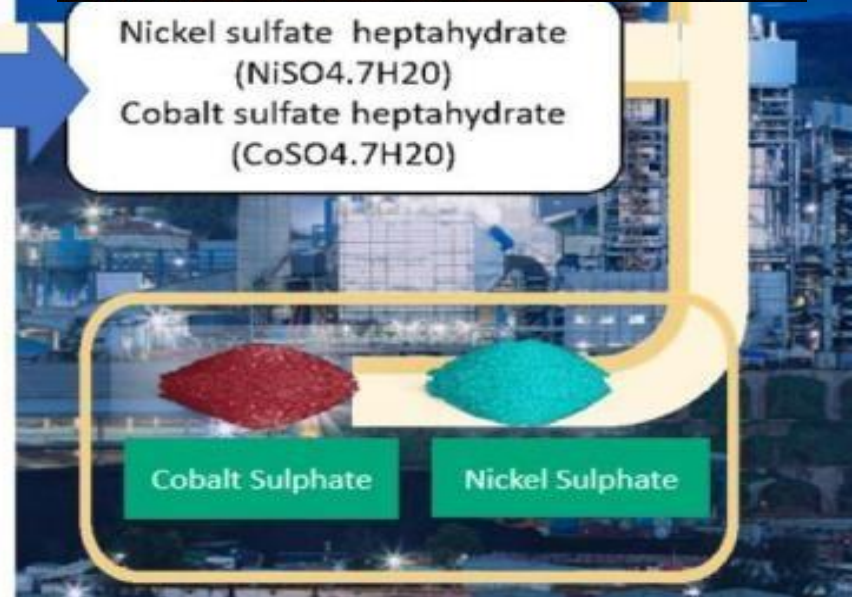
Water Vapor
Evaporation and Crystallization

Removes water content and produces crystalline solids of Nickel and Cobalt Sulfate

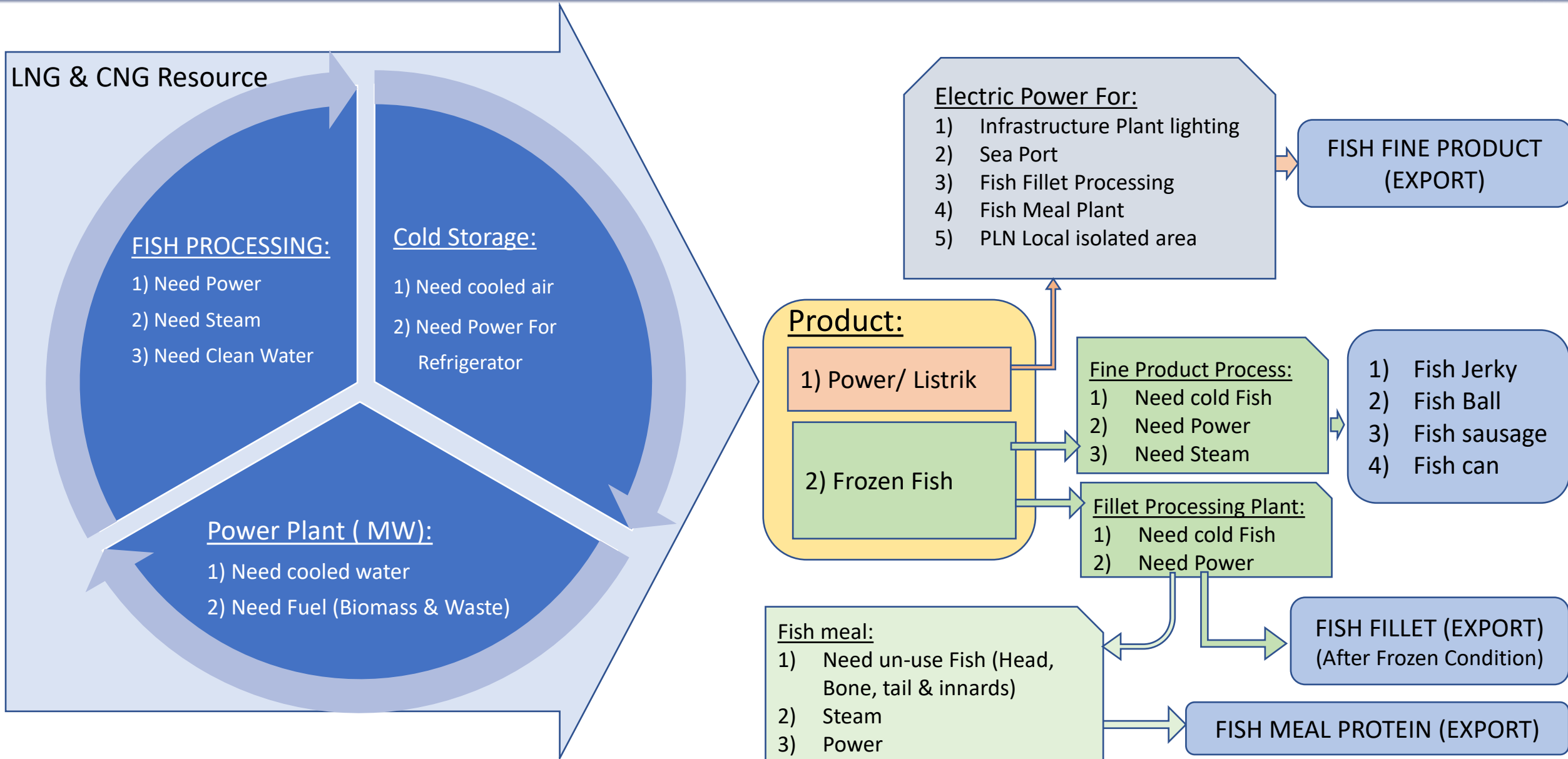
Nickel sulfate heptahydrate ($\text{NiSO}_4 \cdot 7\text{H}_2\text{O}$)
Cobalt sulfate heptahydrate ($\text{CoSO}_4 \cdot 7\text{H}_2\text{O}$)

Cobalt Sulphate

Nickel Sulphate



FISH PROCESSING PLANT WITH CIRCULAR ECONOMY



THANK YOU

**UNITY IS STRENGTH
WHEN THERE IS TEAMWORK
&
*COLABORATION***

**WONDERFUL THINGS CAN
BE ACHIEVED**

- mattie jt stepanek-