



Projeto Betano Refinaria

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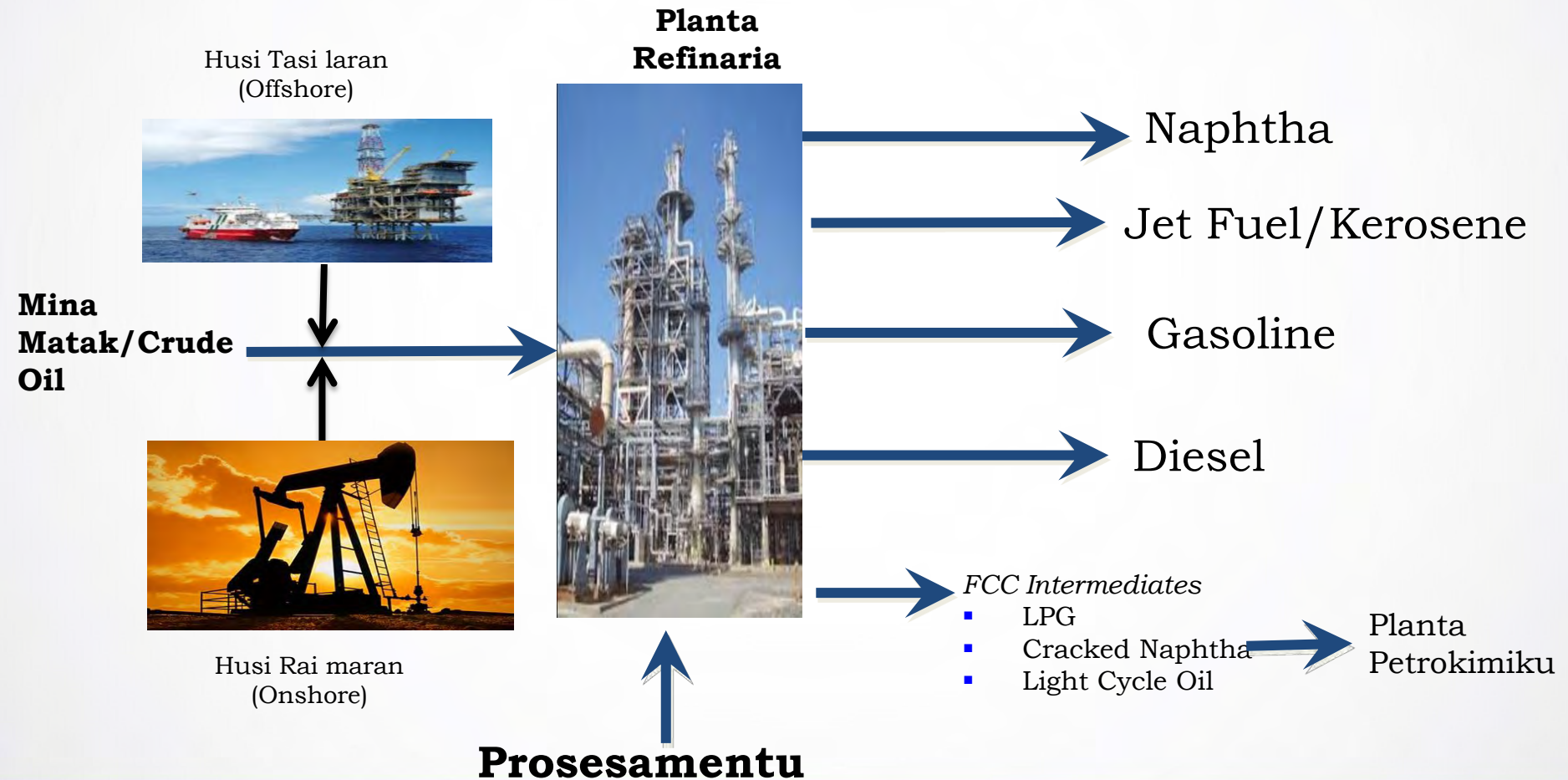
31 Marsu 2016

1. Prespetiva Geral Kona ba Refinaria

2. Kontestu Projeitu Betano Refinaria

3. Area Projeitu Refinaria, Progresu no Resultadu Estudus

- **Objetivu Planta Refinaria:** Transforma mina matak ba produktu petroleu ho valor ekonomia as hanesan : LPG, Naphtha, Gasoline, Kerosene/ Jet A1, Diesel , Fuel Oil, etc. ho efisiente, lukrutivu no ho maneira nebe'e la prejudika meio ambiente;



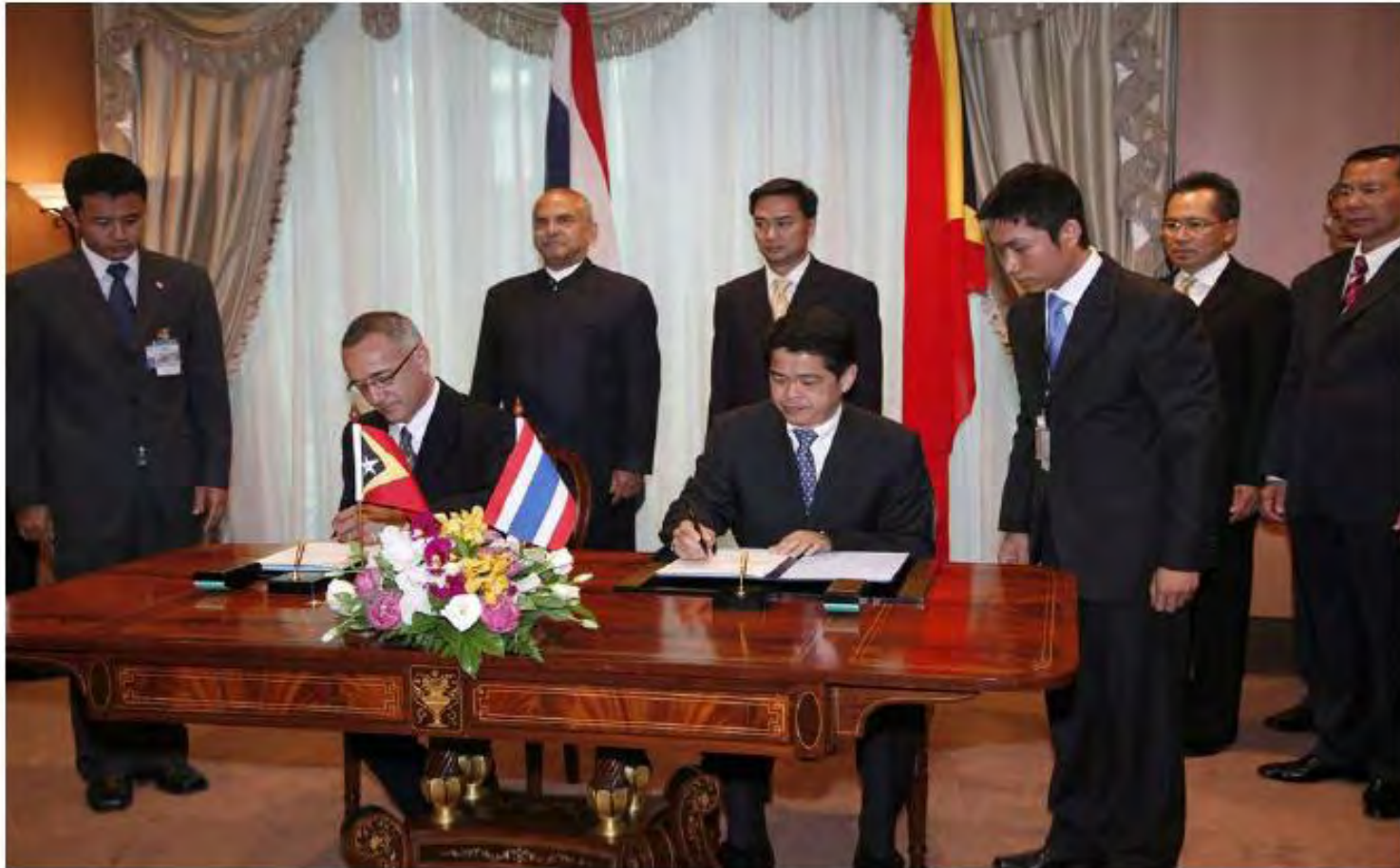
Oin sa atu produse mina matak ba produktu petroleu ho valor ekonomia as?

Ekipamentus prinsipal

- Vessels-Reactors, Separators, Storage Tanks
- Pumps & Compressors
- Furnaces
- Heat Exchangers
- Instruments (measure flow, temperature, pressure, composition)
- Control Systems



2. Kontestu Jeral Projetu

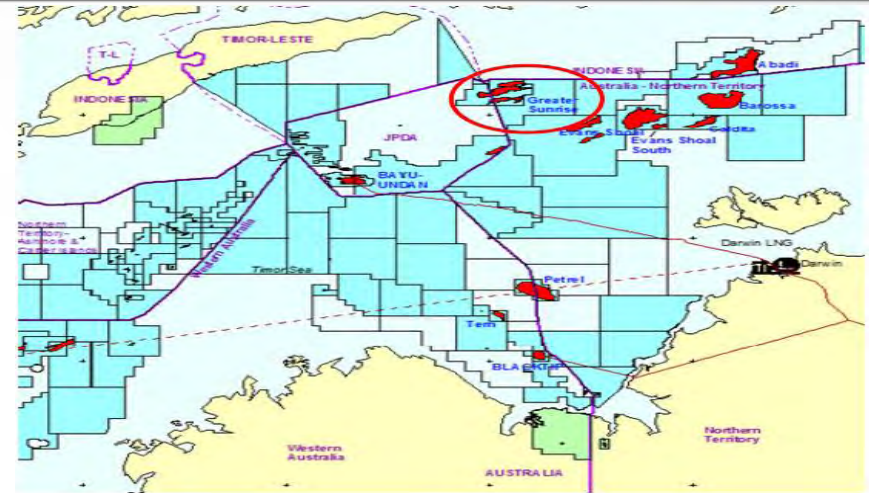


Bangkok--12 Jan 2009

Ministry of Foreign Affairs -H.E. Apisit Vejajjiva, the Prime Minister of Thailand, and H.E. Jose Ramos Horta, the President of Timor-Leste, witnessed the Memorandum of Understanding (MOU) Signing Ceremony between Mr. Prasert Bunsumpun, Chief Executive Officer and President of PTT Public Company Limited (PTT), and H.E. Alfredo Pires, the Secretary of State for Natural Resources of Timor-Leste, on the collaboration of the energy development in Timor-Leste.

Kontestu Jeral Projetu...Cont'd

- Petroleum Institute of Thailand assiste Governu Timor-Leste liu husi SERN iha 2011 halo estudu **Timor-Leste Hydrocarbon Master Plan**
- Estudu Hydrocarbon Master Plan rekomenda katak hodi promote ka inisia industria petrolifera iha Timor-Leste hahu uluk ho Planta Mini-Refinaria (*Condensate Splitter*);
- Tuir rekomendasaun Hydrocarbon Master Plan nian, SERN-PTT Thailandia iha 2011 kontrata KBC hodi halo **estudu preliminaru** kona ba possibilidade hari'i Planta Refinaria iha Timor-Leste;



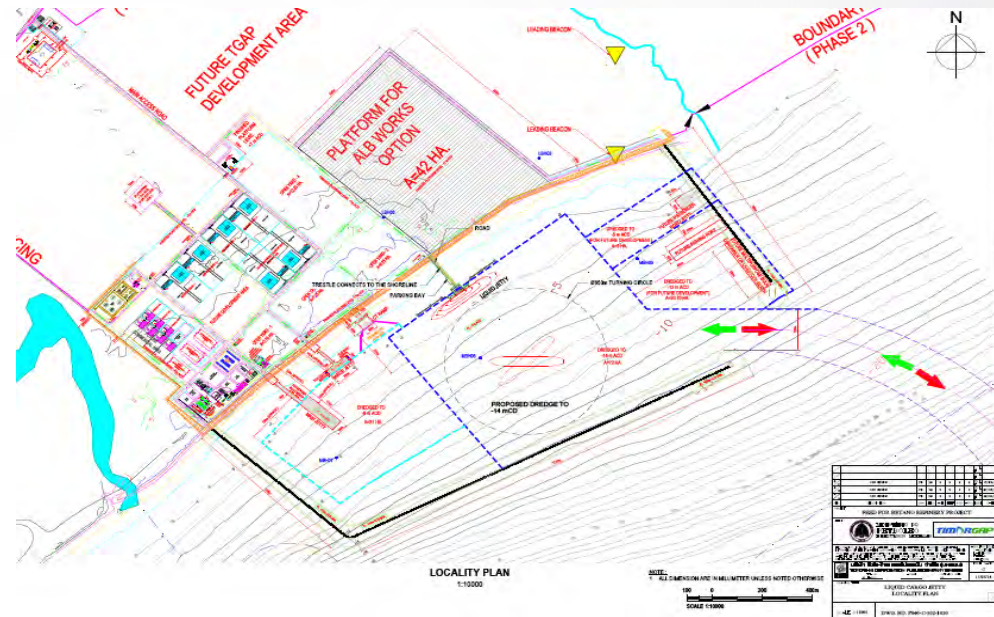
▪ Resultadu Estudu Pre-liminariu:

- Refinaria ho kapasidade 30.000 barril lora ida;
- Produto petroleu ne'be mak sei produs mak hanesan: LPG, Naphtha, Gasoline, Jet-fuel, Diesel
- Oportunidade Merkadoria:
  - ✓ Merkadu domestika bele absorve 30% husi produktu Refinaria nian,
  - ✓ 70% husi produktu sei eksporta ba merkadu Internasional;
- Estratejia Investimentu fahe ba faze 3 (Condensate Splitter, Reformer, Aromatic complex)



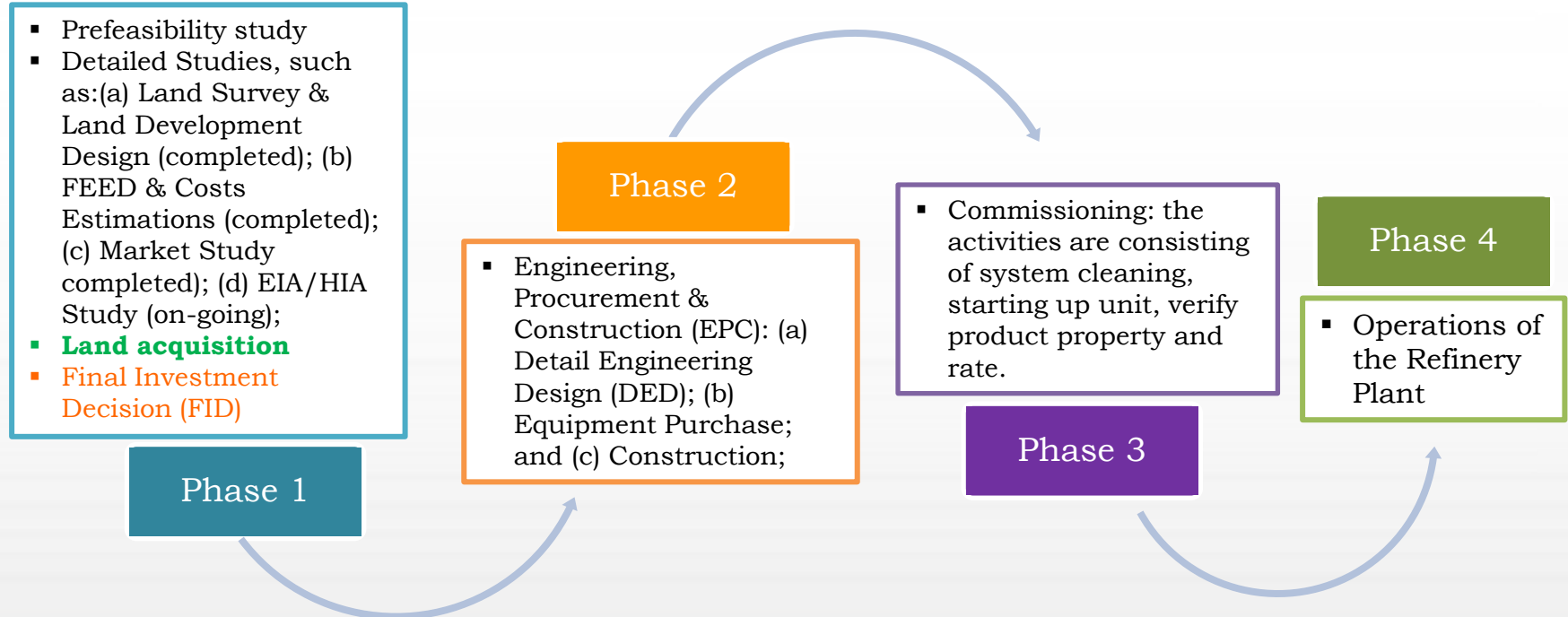
3. Area Projeto Refinaria

Area ba Projeto Betano Refinaria mak iha **Betano no Suai**



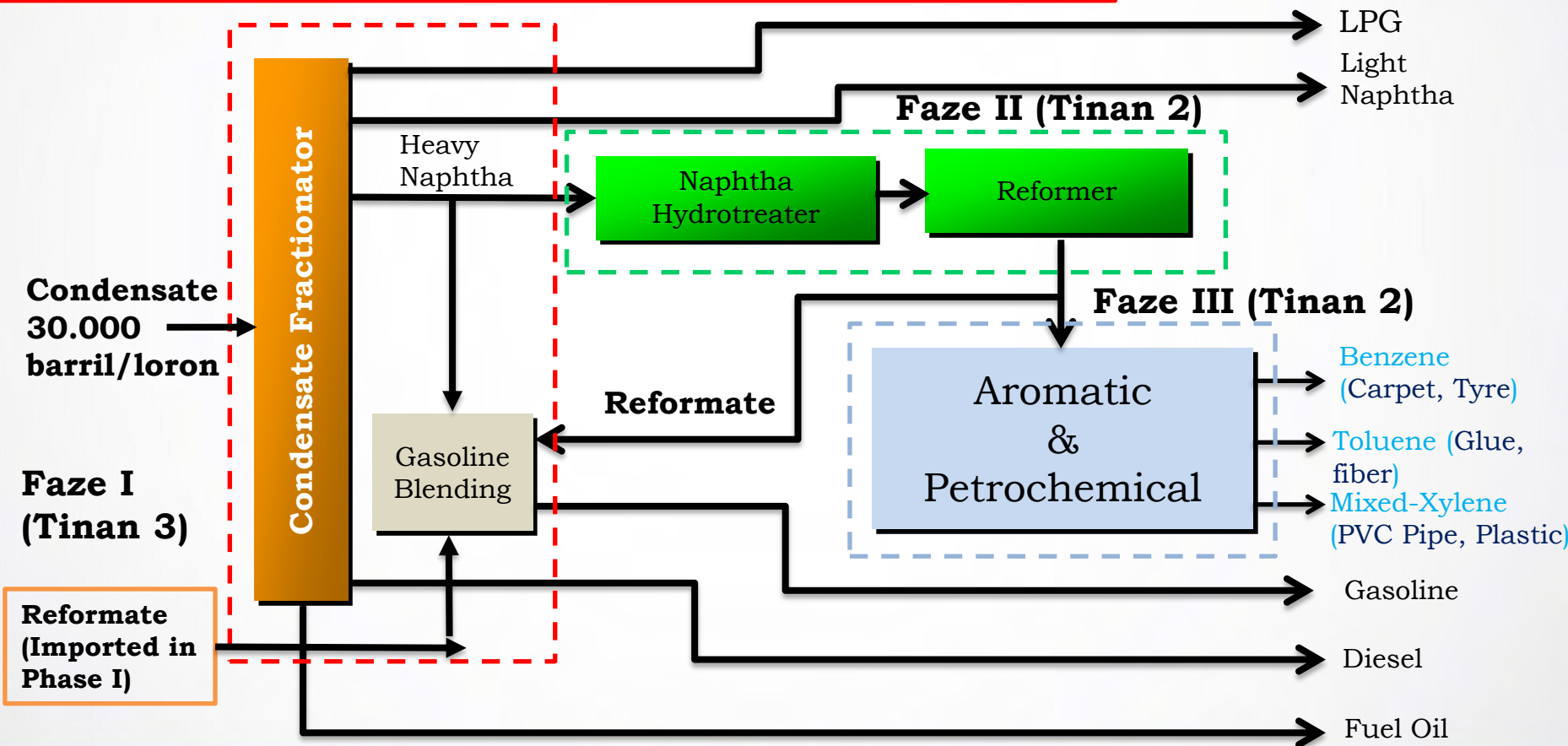
- Total area ba Planta Mini-Refinaria iha Betano: 230 Ha;
- Tank Farm iha Suai (iha area SSB nia laran): 42 Ha
- Total area no rute Be Mos husi mota Quelan ba Planta Refinaria (Betano) ± 9Ha

Faze Dezenvolvimentu Projetu



Estratejia Faze Desenvolvimentu

- Feedstock : Bayu Undan condensate
- Capacity : 30,000 barrels/day
- Critical equipment (columns, fired heater) designed for 40,000 barrels/day



Betano Condensate Splitter

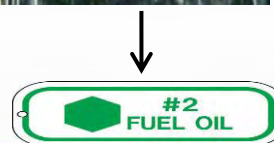
Other Sources



Bayu Undan Field (main)



Greater Sunrise Field



Domestic Market

Light & Heavy Naphtha

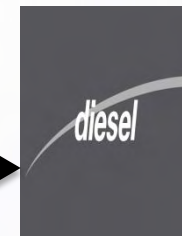


Export

Import Reformate



Domestic Market



Export 75% & Domestic Market 12.8%



Betano & Hera Power Plant 11.7%

Resultadu Estudus – Sistema Logistiku

▪ Lojistiku no Sistema Transportasaun

Fasilidade Refinaria nian iha Suai hanesan: *Product Tank Farm, loading and unloading Feed and Products including blending Facilities*



Transportasaun *feedstock* no produktu sira liu husi kadoras tuir auto-estrada husi Betano ba Portu (Suai Supply Base)

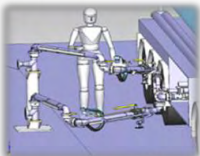


Planta Betano Refinaria ho nia aktividade tomak



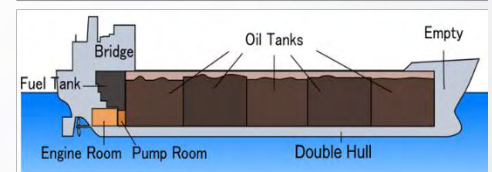
▪ Domestic Shipment

- ✓ Tank truck / ISO tank (loading by truck loading arm)
- ✓ Bottles



▪ International Shipment

- ✓ Tankers (loading by marine loading arms)



■ Estudu Avaliasaun Impaktu Ambiental sei kobre fatin sira hanesan:

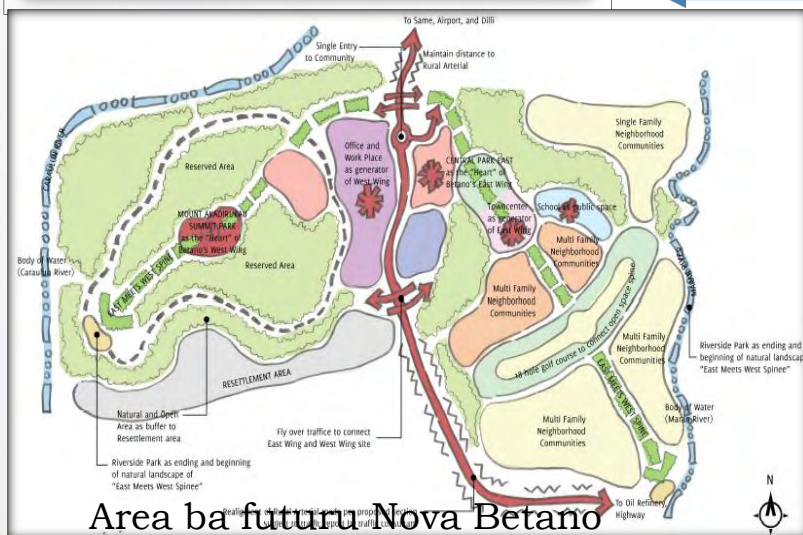
Area Fasilidade refinaria nian iha Suai hanesan: *Product Tank Farm, loading and unloading Feed and Products including blending Facilities*



Rute kadoras nian tuir Auto-Estrada husi Betano Refinaria ba Portu (Suai Supply Base)



Area Planta Betano Refinaria ho nia aktividade tomak



Area ba futuru Nova Betano



BETANO REFINERY PROJECT

Location : Betano Town, District of Manufahi, Timor-Leste

Project area : 567.02 acres.

Initial Phase Facility Building Area : 136.92 acres.

PROJECT DESCRIPTION

The Betano area will comprise an industrial park with a refinery and petrochemical complex. The establishment of a refinery and petrochemical plant will enable domestic production of refined fuel, fertilizers and pesticides, and other petrochemical products that are currently imported. The initial phase will establish a refinery with a capacity of 30,000 barrels per day.



Obrigado Wa'in