The VTTV Oil Storage Terminal







Who is VTTV

vttv

VTT Vasiliko Ltd

- Cyprus registered company in the name of ...
- Private investment on private land
- Foreign investment of €300M = 1.7% Cyprus GDP
- VTTI B.V., the mother company, is a JV oil terminal business with global capacity of 8.0M m³
- VTTI B.V. shareholders:
 - VITOL currently the world's largest energy trading company
 - MISC leading international energy shipping company owned by Petronas

VTTI

- Incorporate the highest standards on health, safety and environment
- Maintain international operating standards
- Intend to expand to 10M m³ by end 2013



Project location







The international market & product flows

The rationale for the project - 1

- To serve as a hub in the Eastern Mediterranean to capture the flows of...
 - ... Fuel Oil from the Black Sea to the East;
 - ... Middle Distillates from the East to the West;
 - ... Gasoline from Europe to the East Med and the Red Sea.



Suez Canal ship flows



The rationale for the project - 2

• To provide ship-to-ship operations in the Eastern Mediterranean

Currently 250 trans-shipments per year take place in the open sea around Cyprus. In 2011, 9.6 million metric tons were trans-shipped. This quantity is expected to increase dramatically when a safer alternative is available (marine jetty).

Generally used oil tanker terminology

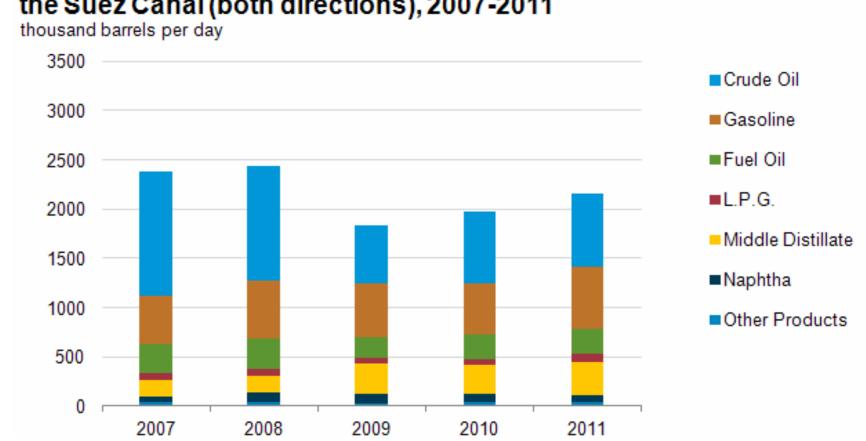
Tanker Type	Deadweight Tons	Approximate Capacity (Barrels)
Panamax	60,000 - 100,000	440,000 - 730,000
Aframax	80,000 - 120,000	850,000 - 880,000
Suezmax	120,000 - 200,000	880,000 - 1,500,000
VLCC	200,000 - 320,000	1,500,000 - 2,350,000
ULCC	320,000+	2,350,000+

In 2011 17,800 ships transited the Suez Canal from both directions of which 20% were petroleum products. The **Suezmax** was the largest ship capable of navigating through the Canal until 2010 when depth was increased to 66 ft to allow over 60% of all tankers to use the Canal, including ships that are 220,000 of dead weight tons in size.





Volume of crude oil and petroleum products transported through the Suez Canal (both directions), 2007-2011



The local market



The rationale for the project - 3

- To serve as an option for the local Cypriot market requirements

 The aged storage facilities at Larnaca do not provide efficient logistics for local marketers and are still slated to be relocated for Larnaca town development.
- To serve as an option for the storage of Cyprus' compulsory stocks.

Currently held in Cyprus, Greece and the Netherlands



Cyprus Compulsory Stocks



- Compulsory stocks for 90 days est. ~500k m3
- T/C land north of VTTV site
- Low cost solution ~€100m
- Quick solution, 1 year from securing licenses
- Eases construction of the Gas liquefaction plant in the Energy Centre



The business environment



The rationale for the project - 4

- A favourable geographical location
- A EU Member State (also employing the concept of bonded warehousing for hydrocarbons in storage)
- Deep sea water close to shore to accommodate large ships
- A modern economy
- Good services provision
- Highly-educated and English-speaking workforce

Improvements for consideration by the Republic of Cyprus

- Permitting and licensing processes simplification
- 'One-stop shop'



Tank Farm



Tank Schedule by Main Product

Capacity (m3)

2036 2036

Product

FAME

Tank no.

T-207

Phase 1

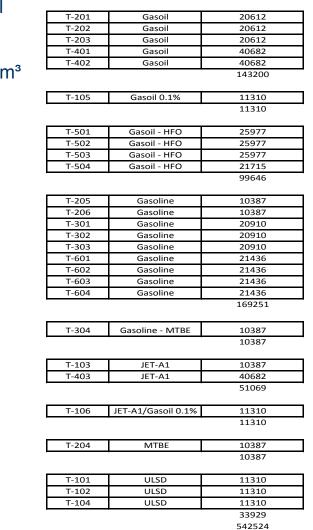
- 20 tanks of total capacity 357K m³
- Access to deep water Marine Jetty
- Access to road tanker loading facilities (gantry)
- Gasoline, Diesel, Jet fuel, Gasoil, MTBE

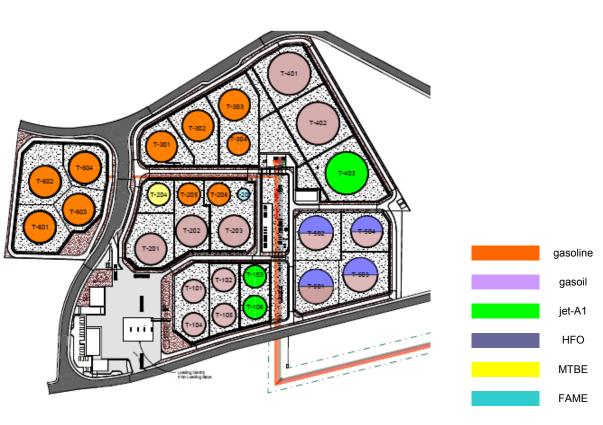
Phase 2

- 8 tanks of total capacity of 186K m³
- Gasoline, Diesel, Gasoil/Fuel oil

Phase 3 (under evaluation)

- 12 tanks of total capacity 315K m³
- Fuel oil





Road Tankers' Gantry 3D





Tanks & Pipelines 3D





Marine Jetty

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- 4 berths handling all oil products
- 2 loading arms per berth per product
- Loading arms capable of loading / discharging 1250m³/h per product
- Jetty extends off-shore 1200m
- Berths 1 & 2: Draft 18.1m (50K 160K DWT)
- Berths 3 & 4: Draft 13.2m (10K 50K DWT)



Marine Jetty 3D







The VTTV terminal: It's happening...





The VTTV terminal: It's happening...



What's in it for Cyprus

Economic

- Only major infrastructure project currently investing in Cyprus with 100% equity funds
- >500 jobs created during construction and 40 full time jobs once operational (1Q14)
- Additional job creation in service provision to support terminal and shipping activities
- Substantial revenues to Cyprus >€18M per year through taxes, customs duties, port fees etc.

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Commercial

- Import / export / trans-shipment of oil products from / to the international market making Cyprus a strategic energy hub
- Trade with Eastern Med. Middle East and European markets
- Partnerships to provide storage options for the inland market and strategic stocks
- Boosts confidence for foreign investments and commercial activities in Cyprus

Synergies

- Share of infrastructure with other energy developments in the area (VOT, LNG etc.)
- Economies of scale from sharing Vasiliko Port facilities and services with others.





Thank you for your attention! Questions?

