VTTI establishing Cyprus as a Regional Energy Hub







VTTI offers oil storage solutions in strategic locations, in a way that is fast, flexible, safe and environmentally sound. We are importantly driven by the needs of our customers.

A fast-growing independent provider of energy storage worldwide, we store, handle and connect oil flows around the world.



RAPID GROWTH



VTTI has grown significantly:

- Through acquisition and expansion of existing sites
- Through construction of greenfield terminals



GLOBAL FOOTPRINT



We own and operate

16 terminals
in strategic locations

Located across

5 continents

With a combined capacity of 10 million m³

CURRENT TERMINALS

Europe	6 / 5,199 km3
Africa	2 / 127 km3
M-E	1 / 1,180 km3
F-E	1 / 893 km3
Americas	2 / 670 km3

CURRENT PROJECTS

Africa	1 /	118 km3
M-E	1 /	410 km3
F-E	1 /	260 km3
Americas	1 /	3 km3



TERMINALS VTTV at VASILIKO CYPRUS (EUR 300m investment)

DETAILS





PRODUCT SCOPE

Minerals

Diesel

Fuel Oil

Petrochemicals

Chemicals

Gasoline Jet fuel Kerosene Naphtha Gasoil

- Strategic location connecting the vibrant trading areas of Southern Europe, the Middle East and Asia
- Deep water access, accommodating up to Suezmax (160k DWT) as well as road tanker loading facilities
- Private single 'T' jetty with four berthing positions
- Capacity approx. 190,000m3 K1 / 350,000m3 MD
- Phase 2 under review approximately 305,000m3



Tank Farm (544k m³ storage capacity)





Marine Jetty



- 4 berths handling all oil products
- Loading arms capable of loading / discharge 1800m³/h per loading arm
- Jetty extends off-shore 1500m to deep water

- Berths 1 & 2: Draft 17m (50K–160K DWT)
- Berths 3 & 4: Draft 13m (5K–50K DWT)



Examining the strategic positioning of Cyprus International Trade



The international market & product flows:

To serve as a hub in the Eastern Mediterranean to capture the flows of...

- Fuel Oil and high sulfur gasoil 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;

Flows are changing due to new refineries in the Arab Gulf, refinery closures in EU.



Ship-to-Ship The strategic positioning of Cyprus



Ship-to-ship operations in the Eastern Mediterranean

- Currently 250 trans-shipments per year take place in the open sea around Cyprus.
- In 2018, ca.10 million metric tons were trans-shipped.
- This quantity is expected to increase dramatically when a safer alternative is available (e.g. marine jetty).



What do we do? - Terminal Activities



- Loading / Discharging vessels
- Ship-to-ship product transfer
- Product sampling at Jetty
- Tank-to-tank product transfer
- Products recirculation in tank
- FAME blending

- MTBE blending
- Road tanker loading
- Additives & dyes injection
- Transfer lines pigging
- Customs bonded tanks
- Product recertification & re B/L



What do we do? Inland Market & Strategic Stocks of the Republic of Cyprus



- 24/7/365 operation.
- Fully automated truck loading facility.
- Dedicated additives storage and dosing at the loading arm; fully automated.
- Per product group 2 dedicated additivation systems.
- Loading facility consist of 4 loading bays with 4 loading arms for different products each.
- Max flow rate per loading arm: 2000 liters / minute.



What can we further do?



Expansion (phase 2: IMO 2020 compliant fuels, LPG marine facilities)



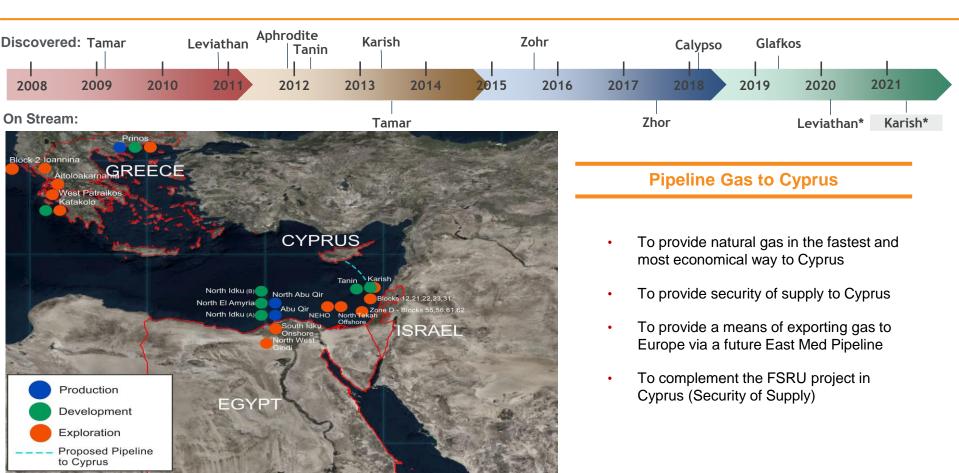
What else can we do? - LNG import marine infrastructure Based on modification of the existing VTTV jetty





Pipeline Gas to Cyprus... The ENERGEAN opportunity





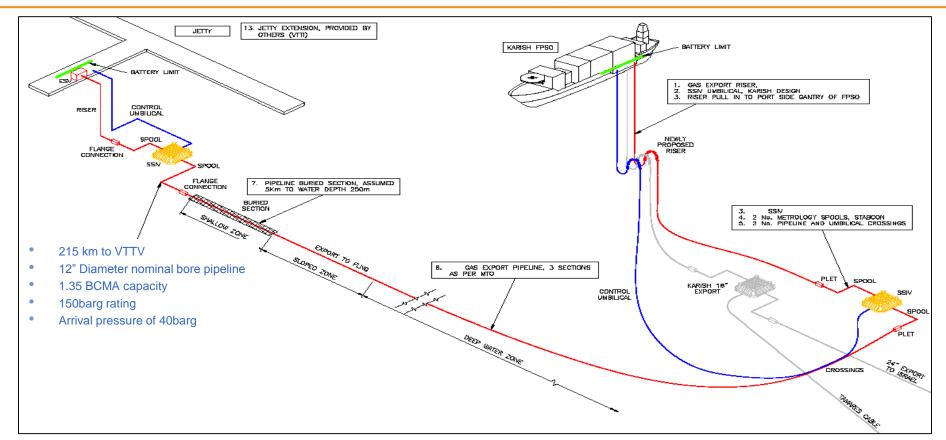
What else can we do? Pipeline Gas to Cyprus... The ENERGEAN opportunity



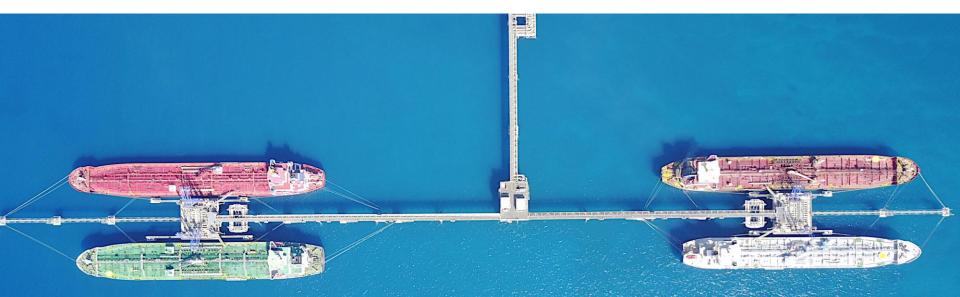


What else can we do? Pipeline Gas to Cyprus... The ENERGEAN opportunity









Thank you for your attention!
Questions?