



Cyprus Oil Gas Association

Under the auspices of the Cyprus Chamber of Commerce and Industry

NICOSIA May 7th 2014

"Forum on Visegrad Group-Eastern Mediterranean Energy Cooperation"

UNIVERSITY OF CYPRUS

Membership
East Med Industry Developments
Prospects and Investment Potentials

www.cyoilgas.org

Presented by: Andy Varoshiotis BSC, MBA, IAFP, EIET, MSDT

Energy Technology - Strategy - Investment Advise





New Frontiers for Cyprus

"Building the new energy economy"

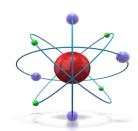
Cyprus Oil & Gas Association Membership



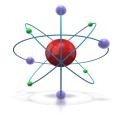
The Cyprus Oil and Gas Association (COGA) was founded under the auspices of the Cyprus Chamber of Commerce and Industry, with the aim of serving the interests of the companies and professionals in the oil and gas industry.

Our Objectives:

- 1. To protect and promote the interests of our members.
- 2. To provide a forum for discussion on issues of common interest.



- 3. To promote co-operation and B₂B among members.
- 4. To promote the development of local resources in the oil, gas and petrochemical industries.
- 5. To collaborate with local and international research centres and institutions to stimulate skills development programs and training in Cyprus.
- 6. To promote, research, innovation and new Energy Technologies.
- 7. To Attract Foreign Direct Investment in SPV's for Industry Infrastructure Projects.
- 8. To become the regional industry share value hub.





Ordinary Members:

Any multi-discipline Oil & Gas operator, drilling company, seismic data provider, petrochemical laboratory, importer or exporter of petrochemical products, land storage carriers, field licensee, equipment manufacturer, by-product engineering company, oil and gas consulting firm, marine engineering, oil and gas shipping, LNG bulk carriers, oil tanker operators, company that provides services to clients in the Oil, Gas and Petrochemical industry and satisfies the following conditions is eligible for Each applicant, as described above, shall be reviewed and approved by the Board of Directors.

Associate Members:

Associate Membership will be opened to all service providers, engineering companies providing services to the Oil, Gas and Chemical Industry but not eligible to join as Ordinary Members.

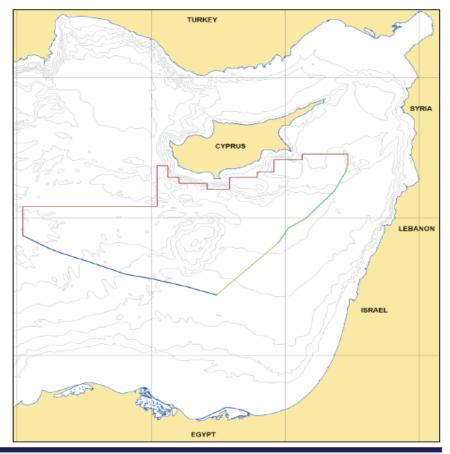
Example: Environmental companies, corporations and individuals involved in activities such as specialist studies in plant safety / loss prevention, design subcontract, manpower supply, sales and/or services of equipment/materials, fabrication of equipment packages, and construction of facilities. Associate members can be legal, secretarial, auditing, management consultancy, financial services, facility architects and civil engineering designers, oil and gas asset finance companies, engineering professors and students in the related field. The Board has the right to expand the list on its discretion to cover other related fields.



Maritime Boundaries

International Bilateral Agreements

- Arab Republic of Egypt
 - ♦ Delimitation of the EEZ (2003)
 - Framework Agreement concerning the development of cross-median line hydrocarbon resources (2006)
 - ♦ Confidentiality Agreement (2006)
- Lebanon
 - ♦ Delimitation of the EEZ (2007)
- Israel
 - ♦ Delimitation of the EEZ (2010)



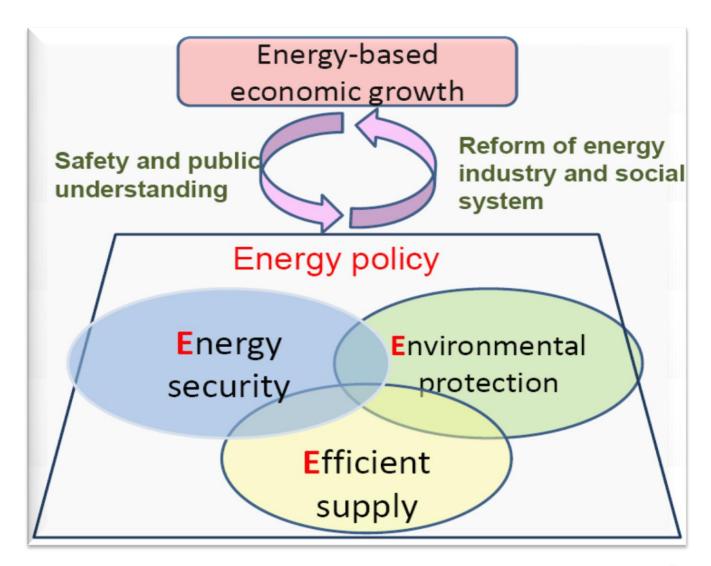


REPUBLIC OF CYPRUS

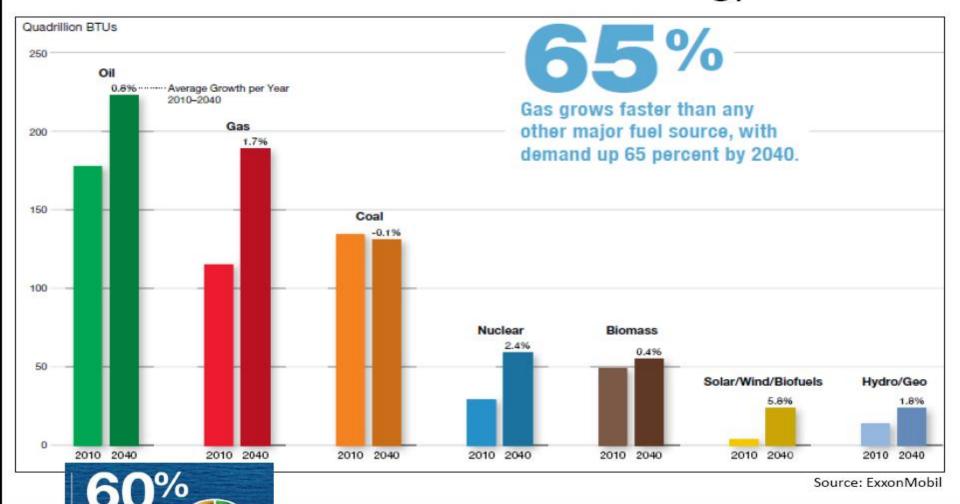
Energy Service - MCIT

New Cyprus Economy?





Oil & Gas Will Dominate the Energy Mix



global energy demand in 2040, up from 55 percent in 2010. Oil and Gas will continue to dominate the energy mix

Global Energy Demand

OECD⁽¹⁾ Non-OECD

(quadrillion BTUs)

1,200

1,000 Energy saved through
efficiency gains ~500 Quads

800

(1) OECD = Organisation for Economic Co-operation and Development. Source: ExxonMobil, 2013 The Outlook for Energy: A View to 2040

2010

2020

2030

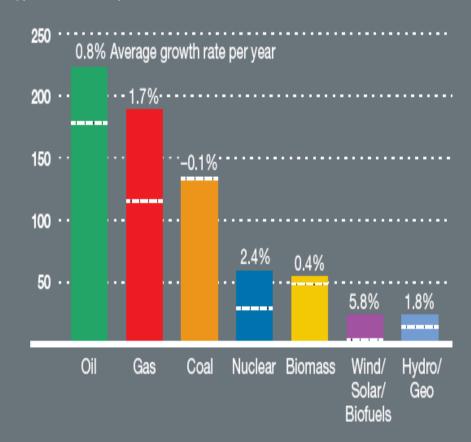
2040

2000

Global Energy Mix

--2010 □ 2040

(quadrillion BTUs)

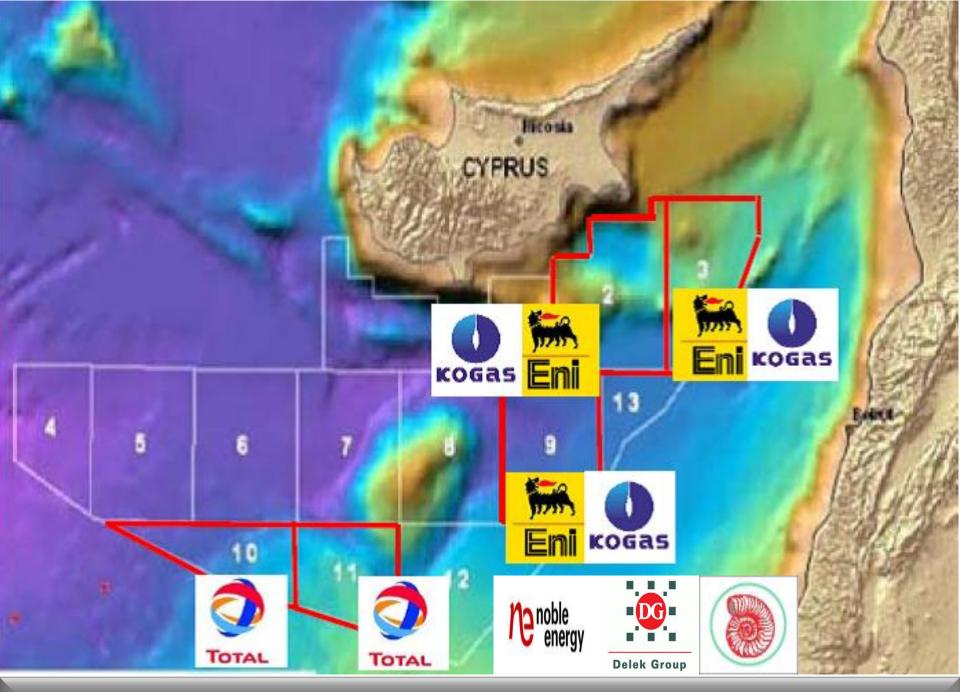




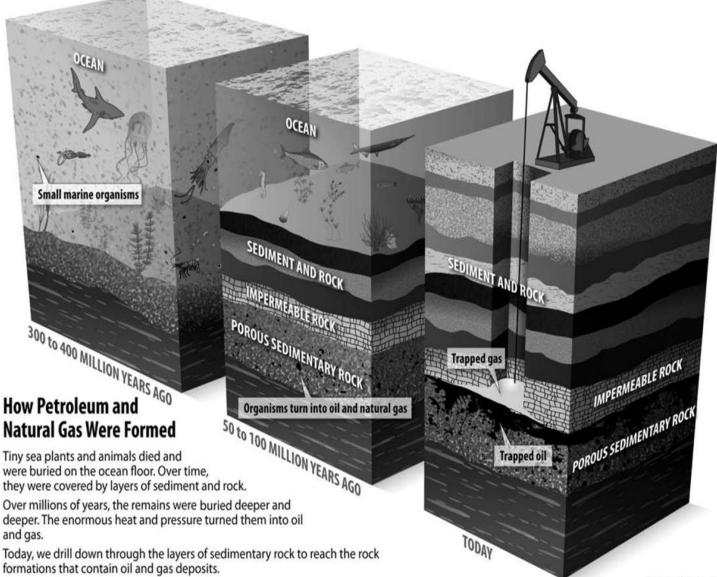
1990

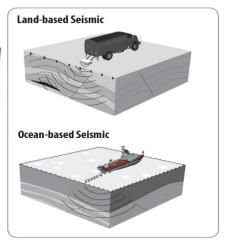
400

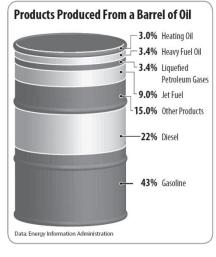
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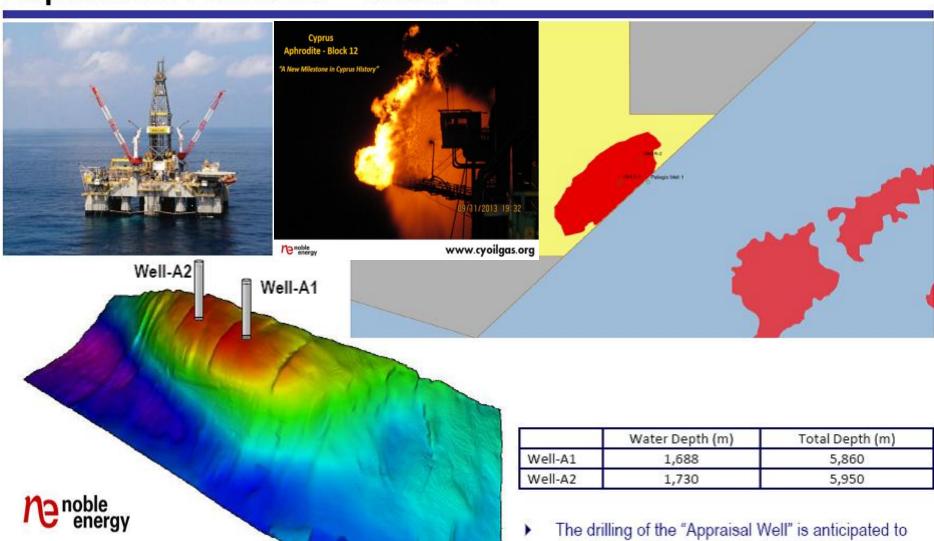


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Note: not to scale



Exploration Activities – Block 12



commence in June 2013

Source Nobel Energy: Field Appraisal





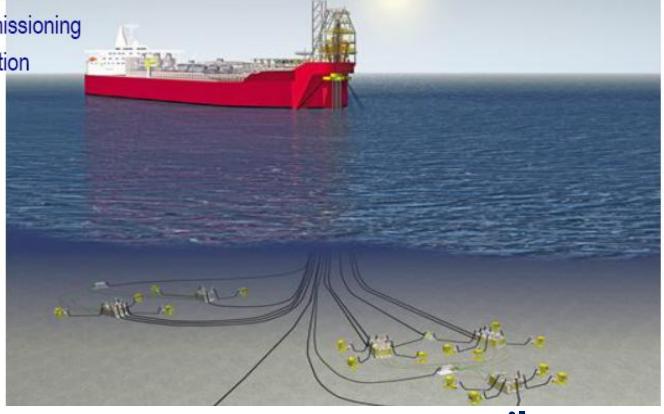
Block 12 – Development Plan

- Verification (exploratory) well drilling
- Reservoir appraisal and assessment
- Studies on the installation of offshore and onshore equipment
- Production drilling and well completion

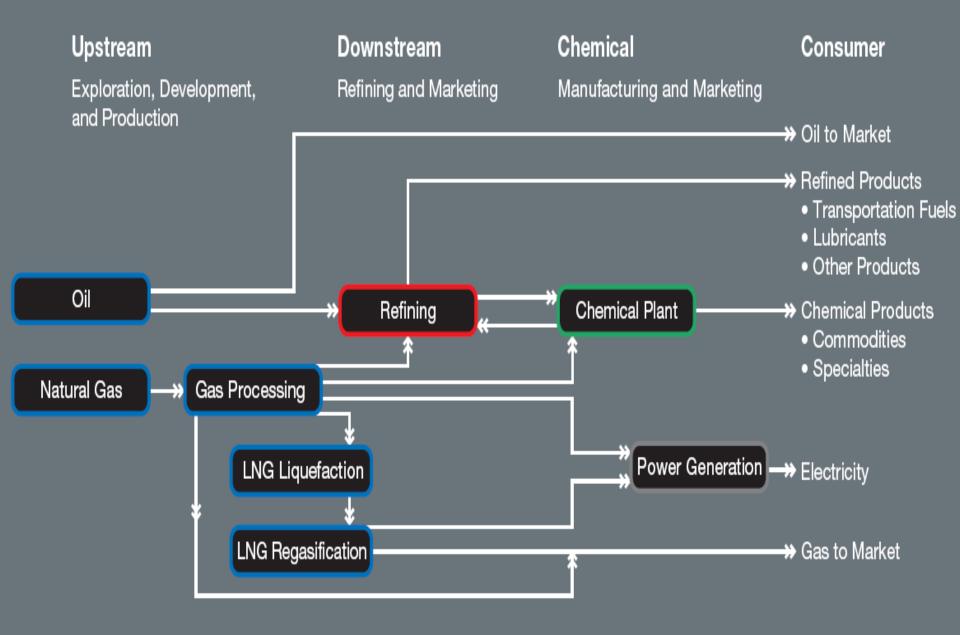
Subsea system installation

Deep water host commissioning

Export pipeline installation

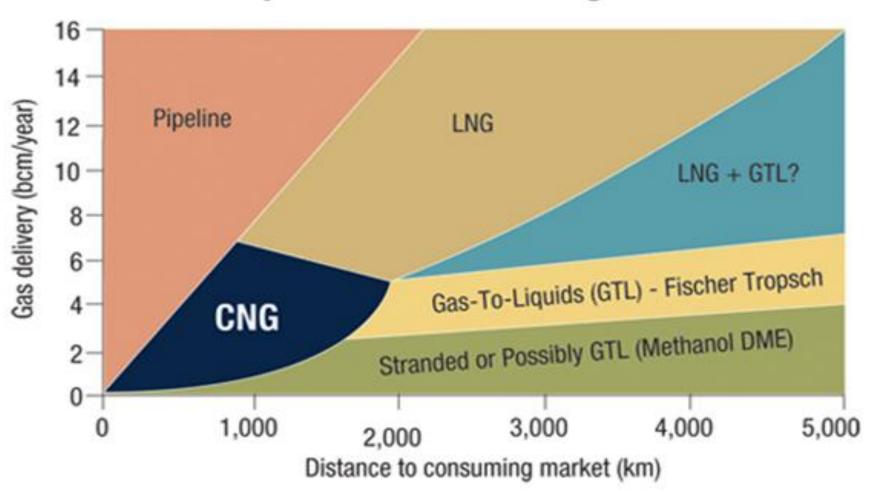






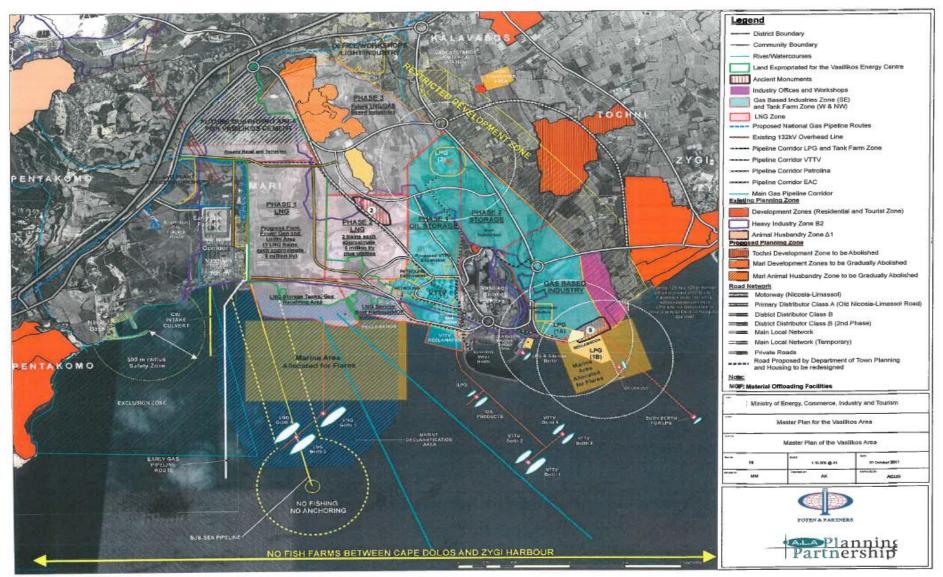


Efficient Options for Monetizing Natural Gas









VASSILIKOS ENERGY PORT





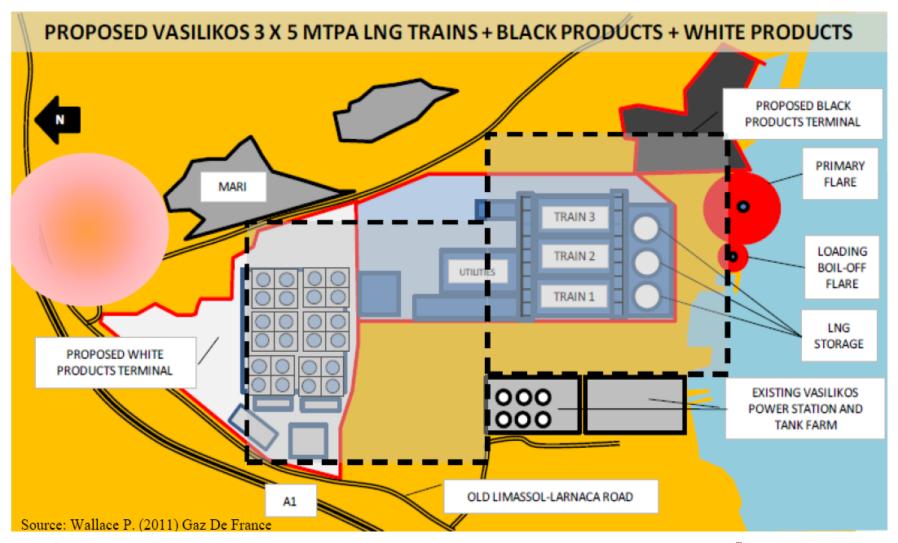


VASSILIKOS LNG TERMINAL





EXPORTING POSSIBILITIES (LNG)

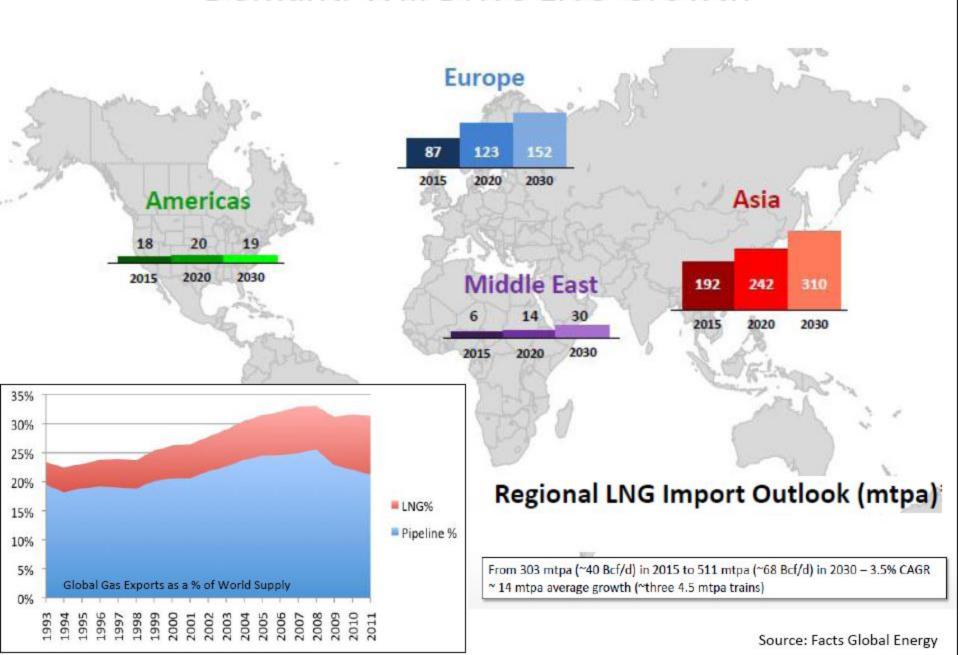




LNG SHIP & FSRU

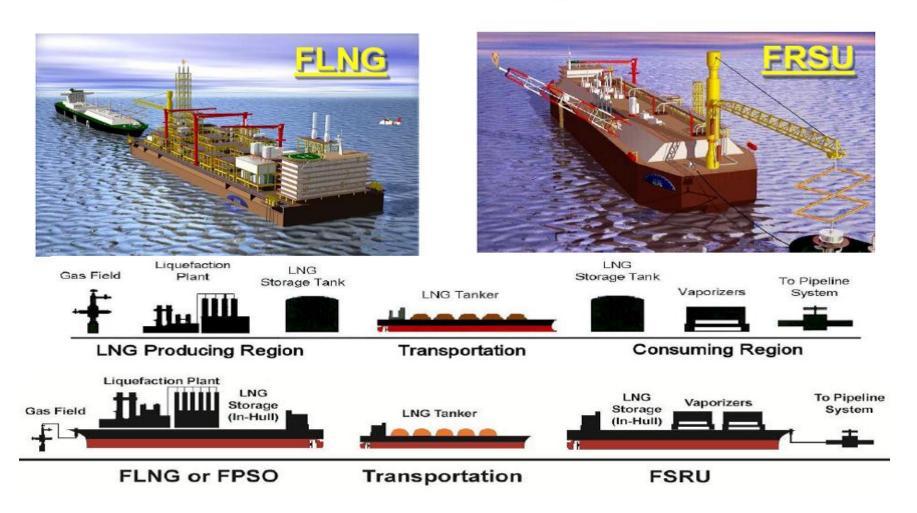


Demand Will Drive LNG Growth



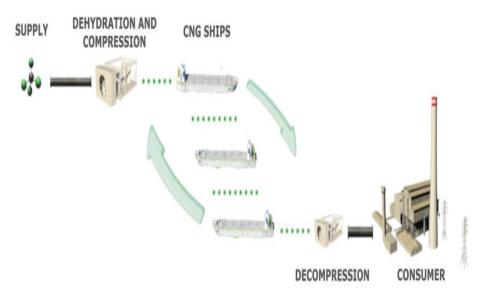


Traditional vs. Full-Floating LNG Chain



COMPRESSED NATURAL GAS (CNG)





Source: Stenning (2012).

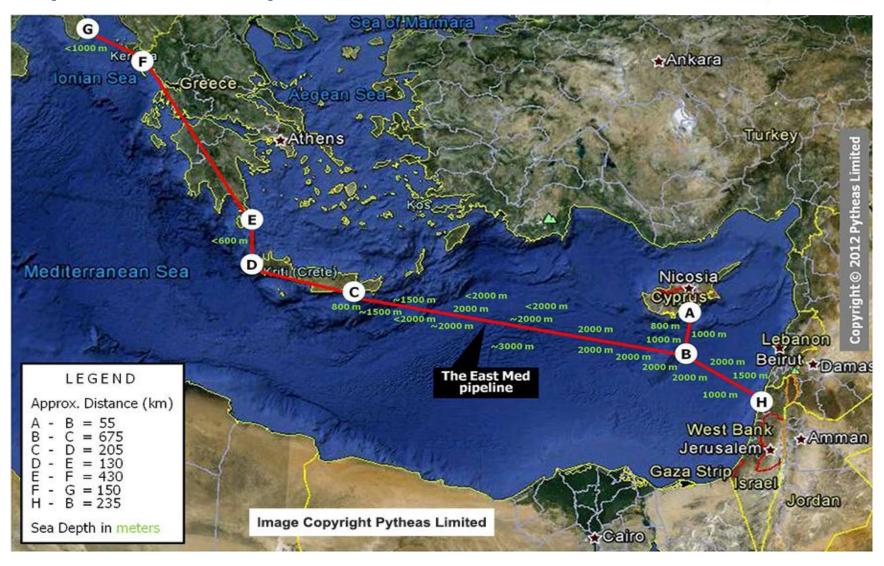
Produced by The MIT Energy Initiative,
Massachusetts Institute of Technology
In collaboration with The Cyprus Institute
Sponsored by The Cyprus Research Promotion Foundation

August 2013





Pipeline to Europe? Geopolitical Debate

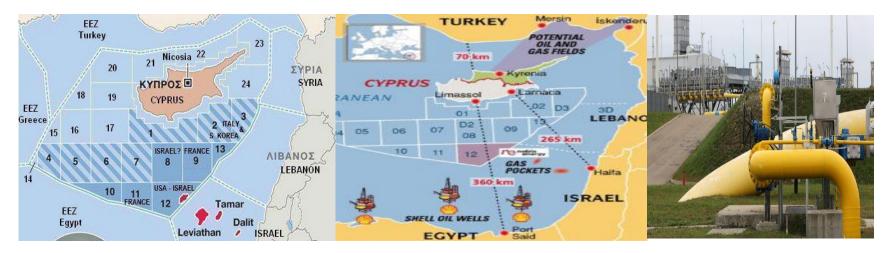


The priority is to build a liquefied natural gas (LNG) terminal, but a pipeline could have advantages for Europe.



Pipeline to Turkey? Geopolitical Debate

The numbers are there. Israel's current gas reserves total 25-37 trillion cubic feet. Cyprus, still in the early exploration phase, claims it has 60 tcf. The U.S. Geological Survey said in 2010 the Levant Basin, which covers Israel, Cyprus, Syria, Lebanon and the Gaza Strip, contains an estimated 123 tcf.



The Republic of Cyprus reportedly rules out allowing a pipeline to Turkey through its exclusive economic zone until there's been a settlement to the Cyprus Problem.

According to some analyst's Israel's not likely to agree to a costly LNG plant on Cyprus if there's no pipeline to Turkey. It wants a firm answer by early 2014.





VTT Vasiliko Limited





Source VTTI: Industry Development

http://www.vitol.com/terminals.html

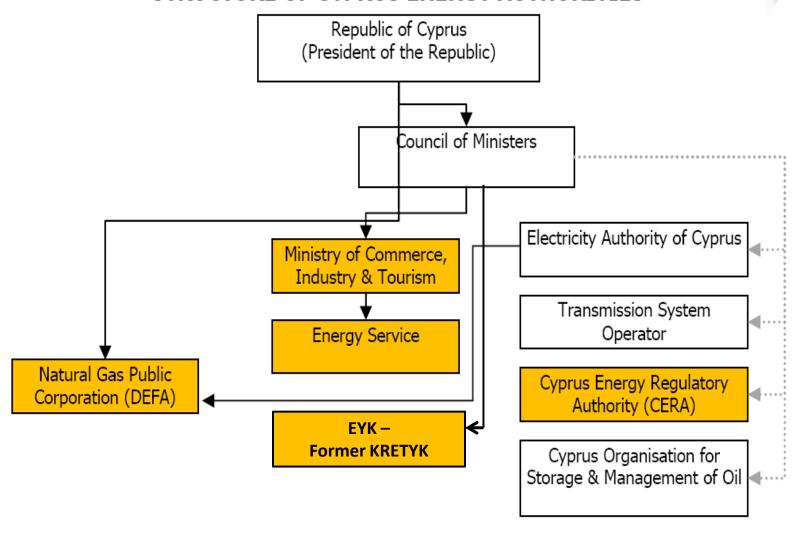


Cyprus Shipping Ranks No 3 in EU in the 10 top in the World





STRUCTURE OF CYPRUS ENERGY AUTHORITIES





THANK YOU FOR YOUR ATTENTION

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