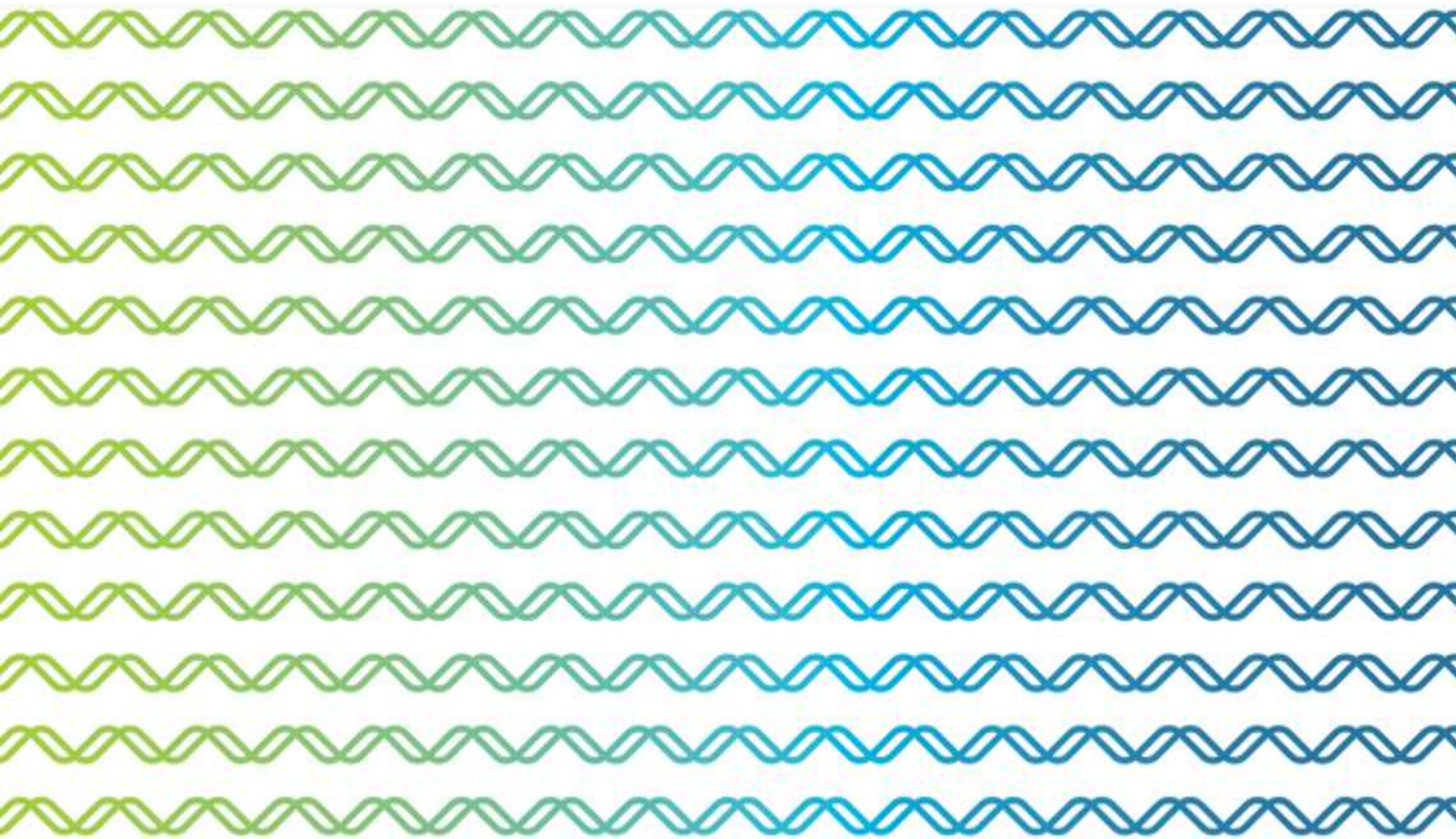


The CYnergy Action

Energy Efficiency Conference, 28 March 2019,
Lemon Park



Co-financed by the European Union
Connecting Europe Facility



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Scope and Objectives (1/3)

- Establishment of a Natural Gas supply and distribution system in **Cyprus** by taking as a focal point the floating LNG Facility (FSRU or FSU and floating regasification unit).
- Optimization of the upstream, midstream and downstream NG facilities through:
 - The definition of the best available solution for main NG supply, storage, trade and distribution in Cyprus;
 - The exploration of the possible complementary schemes in NG supply, storage, trade and distribution;
 - The possible development of a secondary LNG market (INTRAMED) utilizing small-scale LNG bunkering vessels;
 - The investigation of the possible development of a complementary CNG waterborne supply chain;
 - The exploration of the possible consumption and distribution of NG by road transport, industrial and commercial users and the maritime sector;
 - The analysis of legal and regulatory framework for the use of NG by road transport, industrial and commercial users and the maritime sector;
 - The development of dedicated implementation plans for the introduction of NG in the sectors of energy and transport.

Scope and Objectives (2/3)

15 Partners

2 CY Ministries

7 CY Partners

6 GR Partners



Ministry of Energy, Commerce, Industry and Tourism



Ministry of Transport, Communications and Works



TEN LTD
TRAKOR ENERGY NAVIGATION LTD



Cyprus Ports Authority



PUBLIC GAS CORPORATION S.A.



Lloyd's Register



DECISION DYNAMICS Ltd
Management Consultants



ROGAN ASSOCIATES S.A.



TOUMAZIS



Duration: 01/04/2017 – 31/03/2020 | Total Budget: EUR 7,470,000 | CEF Funding Rate: 60%

Scope and Objectives (3/3)

Upstream and Midstream NG Market Roll-out Optimization

Technical and Operational Design for LNG Storage Facility & NG System

NG in Road Transportation: Design, Legislation, Implementation Roadmap

NG for Industrial & Commercial Use: Strategy, Legislation, Implementation Roadmap

NG in the Maritime: Strategy, Legislation, Implementation Roadmap

Financing NG Implementation

Public Awareness-Highlighting the Benefits

CYnergy Added Value (1/2)

CYnergy

extends the impact of previously implemented actions. The LNG facility in Vassiliko could be employed in the bunkering process of LNG fueled vessels (an objective studied as part of the actions).

added value compared to the previous actions is that it provides a holistic approach towards the use of NG by the sectors of energy and transport.

covers the complete core and comprehensive TEN-T network (roads and maritime ports) of Cyprus

examines the use of both LNG and CNG, not solely LNG

CYnergy Added Value (2/2)

October 2017, all CYnergy resources were mobilized aiming for the successful CEF Energy Proposal for PCI CyprusGas2EU.

January 2018, EUR 101,5 mil., were secured for the financing of CyprusGas2EU.



CYnergy Benefits (1/2)

Economic Gains

Environmental Gains

A comprehensive NG system for Cyprus

Geopolitical Impact

Technological Innovations

CYnergy Benefits (2/2)

Synergies will occur in the energy and transport sectors

A sustainable energy and transport system in Cyprus will be established

Technical and commercial activities to define the main patterns for LNG supply

Development of a supply chain for the introduction of LNG and CNG

Optimization of the upstream and downstream NG supply chain

Analysis of the NG prices

Reduction of external costs for Cyprus

Increase competitiveness

Economic Gains



Transition to the clean fuel era

Introduction of LNG and CNG as alternative fuels in the energy and transport sectors

Achieve low GHG emissions, low-carbon transport, and environmental protection

Compliance with the European regulations and international policies for reduction of emissions

Decrease reliance on traditional fuel oil sources

Environmental impact



Higher quality standards for NG exploitation and transport services will lead to:

- Development of a sustainable energy system
- High quality LNG infrastructure
- An optimum LNG vessel concept will be developed for the area conditions and envisaged trades

Technological Innovations



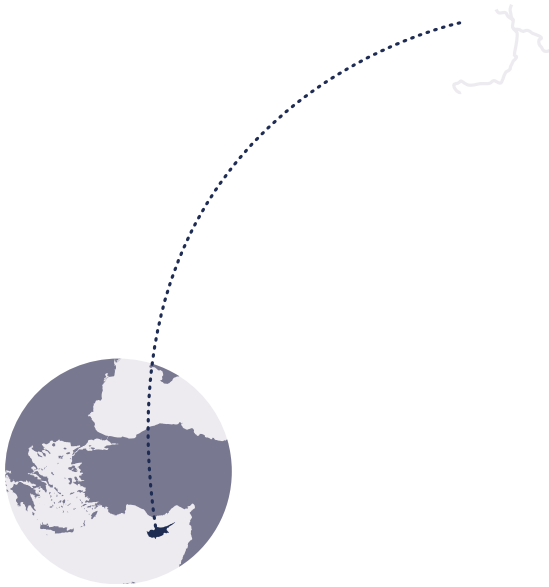
Synergies in LNG Supply:

- Cross-border collaboration between the two Member States of Greece and Cyprus in the primary and secondary NG markets
- Removal of bottlenecks and the bridging of missing links between Cyprus and the rest of South Europe
- Remove island isolation in terms of energy and transport

Geopolitical Impact



Summary



- Establishing the respective infrastructure is a cost and time intensive process
- NG is a financially efficient and environmentally friendly fuel in a wide range of applications of the transport and energy sector
- The same gas is suitable and will be finally distributed to cover the demand needs of various applications (energy: commercial, industry, etc. and transport: inland or marine)
- Solves the chicken-and-egg problem in transport by seeking synergies with energy
- Solves the environmental problem in energy by seeking synergies with transport

Thank you for your Attention!

Eleni Filippi

Business Development Manager - Ocean Finance Ltd.

efilippi@oceanfinance.gr



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