Offshore Cyprus

A New Frontier & Emerging Region The Legal & Fiscal Framework



Solon Kassinis Director - Energy Service

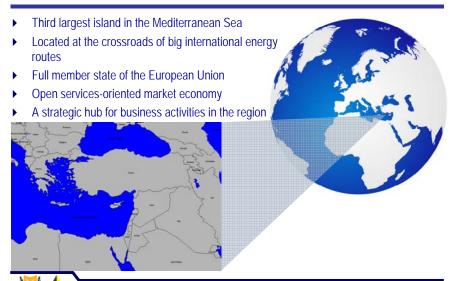


Ministry of Commerce, Industry & Tourism Republic of Cyprus

Cyprus: Geostrategic Facts

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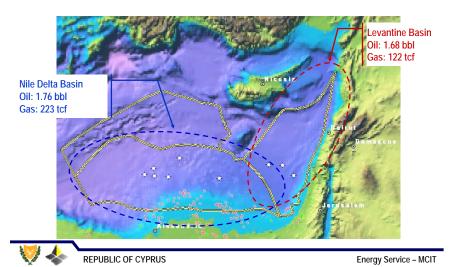




Regional Hydrocarbon System: Potential



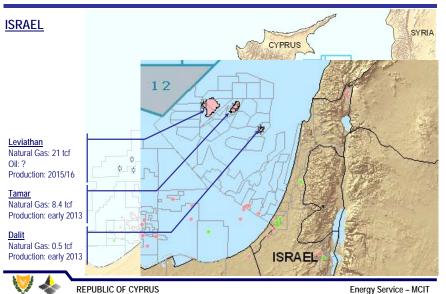
Undiscovered Oil & Gas Resources in the Eastern Mediterranean Assessment by USGS



East Med Hydrocarbon System: Current Scene



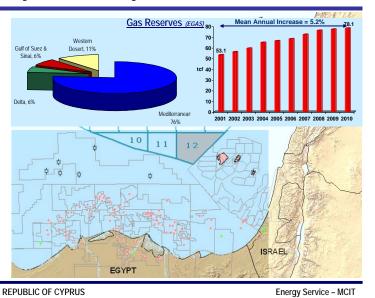
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East Med Hydrocarbon System: Current Scene



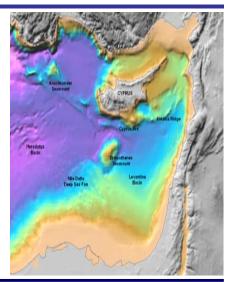
EGYPT



Offshore Cyprus: An Emerging Area



- A promising regional geological background:
 - A great number and variety of "play concepts" for Exploration associated to the different tectonic and stratigraphic domains
 - Many attractive major "plays" have been identified
 - An efficient regional seal: the Messinian evaporites
- ► Big hydrocarbon discoveries in the region (Tamar 8.4tcf, Leviathan 21tcf)
- Greater Mediterranean Region is a market with large potential for oil and gas trading





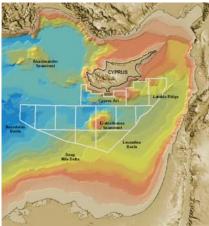
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Offshore Cyprus: A Frontier Exploration Area



- ▶ Deep-water frontier exploration area of about 51,000 km2 (part of Exclusive Economic Zone of the Republic Cyprus)
- Located south of the island of Cyprus
- ▶ 13 Exploration Blocks
- Promising frontier exploration area with proven potential in the vicinity
- Very thick sedimentary basins (12-15 km)
- Multiple possible clastics and carbonate reservoirs
- ▶ 14 plays and many leads of considerable size

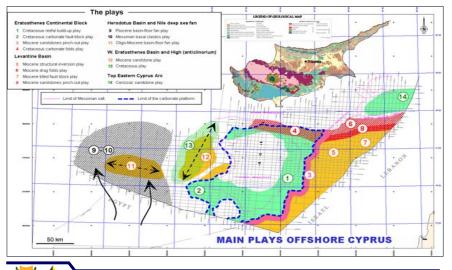


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Offshore Cyprus: 14 Recognized Plays

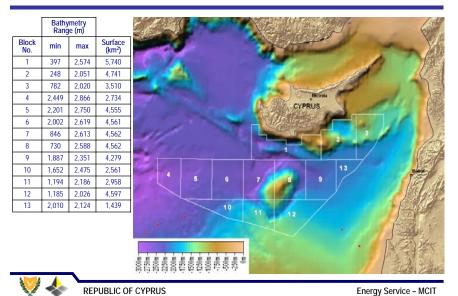






Offshore Cyprus: A Frontier Exploration Area





Geophysical Data



Seismic Surveys

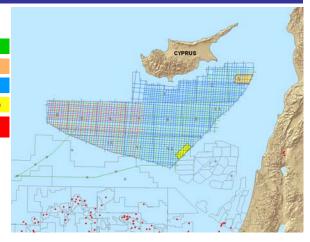
MC2D-CYP2006: 6,770 line km 2D

MC3D-CYP2007: 659 sq. km 3D

MC2D-CYP2008: 12,200 line km 2D

BLOCK 12-3D (2009): 469 sq. km 3D

MC2D-CYP2011: 3,300 line km 2D





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Geophysical Data

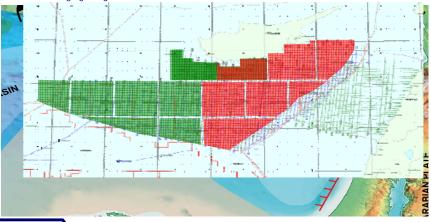
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Airborne Geophysical Surveys - Gravity and Magnetics (planned)

- ▶ 63,000 sq. km
- ▶ 10 km imaging margin



Multi Client Seismic Surveys



- ▶ Multi Client 2D-2006
 - Acquisition of 6,770 line-km, 2D seismic data in 2006
 - ♦ Covers an area of 51,000 km² within the EEZ
 - ♦ Ties to key wells in the NEMED Block (Egypt)
 - ♦ 10 x 20 km 2D seismic grid



- ♦ Acquisition of 659 km² of 3D seismic data in 2007
- ♦ Area located close to Lebanon offshore boundaries
- ♦ Identified several direct hydrocarbon indicators and amplitude anomalies

▶ Multi Client 2D-2008

- ♦ Acquisition of 12,200 line-km of 2D seismic in 2008
- First biggest multi-client survey to use the new GeoStreamer® technology by PGS
- Enhanced resolution and better penetration revealing deeper targets
- ♦ 10 x 10 km seismic grid on the western side of the area
- ♦ 5 x 5 km seismic grid on the eastern side of the area



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PGS
Energy Service – MCIT

Interpretation Reports



- "New Exploration Opportunities Offshore Cyprus: Exploration Plays and Leads (PGS, MC2D-CYP2006 and MC2D-CYP2008)"
- ♦ New Integrated 2D Seismic Interpretation Report
- 4 volumes, 181 Figures, 19 Maps
- Hydrocarbon prospectivity reassessed
- Identification of 14 different plays for exploration
- Regional geology, interpreted seismic sections, time and depth structure maps of key horizons, thickness maps of key intervals, plays and leads
- "New Exploration Opportunities Offshore Cyprus: 3D Seismic Interpretation Report in Block 3 (PGS, MC2D-CYP2007)"
 - ♦ 3 volumes, 151 figures, 19 Maps
 - ♦ TWT structural maps of 5 horizons, depth structural and interval maps, definition of reservoirs, seals and traps
 - Inventory and volumetrics of leads

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Geological & Geophysical Data



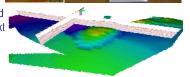
Multi-Client Seismic Surveys

- Conducted by Petroleum Geo-Services (PGS)
- Review of the seismic data
 - Electronic and hard copies of the data
 - PGS data rooms in Oslo, London, Houston
- The purchase of a minimum quantity of 2D seismic lines is required for participation in the next Licensing Round Offshore Cyprus

Interpretation Reports

- Prepared by Beicip-Franlab in collaboration with the Energy Service - MCIT
- Part of the data package required to be purchased by companies interested in participating in the next Licensing Round Offshore Cyprus
- Available by Energy Service MCIT





Cost Oil/Gas recovery (up to a max. %)

Profit Oil/Gas sharing % (according to

production tiers and prices)

Annual Surface Fees

Signature and Production Bonus

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Legal & Regulatory Framework



- The Hydrocarbons (Prospection, Exploration and Exploitation) Law L.4(I) of 2007
- The Hydrocarbons (Prospection, Exploration and Exploitation) Regulations of 2007 and 2009

Hydrocarbon Exploration License

- Granted initially for up to 3 years; ability for two renewals of 2 years each
- Includes gravity and magnetic surveys, 2D/3D seismic surveys, as well as one exploration drilling
- On each renewal, at least 25% of the initial area is relinquished
- In case of a discovery, the licensee has the right to be granted an exploitation license

Hydrocarbon Exploitation License

Granted for an initial period of up to 25 years; ability for one renewal of up to 10 years





Legal & Regulatory Framework



Model Production Sharing Contract

- Model PSC to be used in the licensing procedure and concluded between the licensee and the Republic of Cyprus
- Main terms include:
 - **♦** Fundamental Obligations
 - Minimum Exploration Work Obligations
 - Work Programs & Budgets
 - Appraisal & Development Plans
 - **Training Obligations**
 - Guarantees
 - **Accounting Procedure**
- Zero taxation
- The Director of the Energy Service, representing the Minister, negotiates the terms and conditions of the PSC





Fiscal Regime

Legal & Regulatory Framework



Environment – Health & Safety

Republic of Cyprus has carried out a Strategic Environmental Assessment (SEA) to identify, describe and evaluate the likely significant effects on the environmental effects of implementing hydrocarbon exploration and exploitation activities

Applicants are bound to follow and comply with the results and recommendations of the SEA

Every licensee shall carry out hydrocarbons operations in a proper, safe and workmanlike manner and in accordance with good hydrocarbon field practices and the relevant national legislation

Every licensee shall ensure that hydrocarbon operations are conducted in an environmentally acceptable and safe manner, consistent with the environmental legislation and the good international industry practice

Environmental Report







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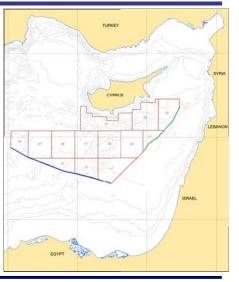
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Legal & Regulatory Framework



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)





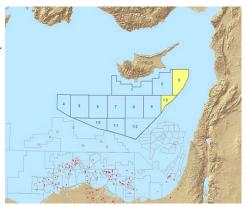
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1st Licensing Round



- Opening: 15 February 2007
- Closed: 16 August 2007
- 11 Blocks (46,000 km²) were on offer
- Blocks 3 and 13 were excluded
- Available Data:
 - ♦ MC2D-CYP2006 seismic survey (6,770 line-km)
 - ♦ Interpretation Report
- A total of 35,000 line-km of 2D seismic data were purchased by interested parties
- Three applications were submitted
- One Exploration Licence was awarded for Block 12

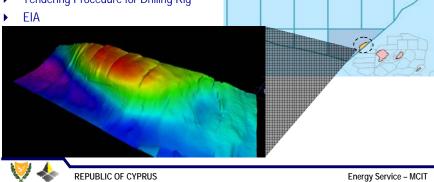


Block 12





- Sept. 2009: 469 sq km 3D seismic survey
- Cyprus A: Prospect
- 4th Quarter of 2011: First Exploratory Well
- Tendering Procedure for Drilling Rig





Prospected 2nd Licensing Round



12 Exploration Blocks (1-11 & 13) will be on offer

- Available data:
 - ♦ MC2D-CYP2006 survey data comprising 6,770 line-km
 - ♦ MC3D-CYP2007 survey data in Block 3 covering 659 km²
 - ♦ 3D Interpretation Report on Block
 - ♦ New MC2D-CYP2008 survey data comprising further 12,200 line-km
 - ♦ New integrated 2D Interpretation Report (MC2D-CYP2006 & MC2D-CYP2008)
- Promotional seminars with full documentation, including the bidding procedures, will be organized upon the official opening of the 2nd Licensing Round





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Submission of Applications



General Procedure & Guidelines

- Invitation for submission of applications published in the Official Journal of the European Union and the Official Gazette of the Republic of Cyprus
- Applications are submitted to the Minister of Commerce, Industry and Tourism and handled by the Energy Service - MCIT
- Evaluation of the applications is carried out by a special Governmental Consultation
- One application per Block
- Content of Applications:
 - Technical, Financial and Legal Capacity documentation
 - Technical and Financial Proposal for the Block
 - Description of the exploration programme
 - Minimum exploration work (at least one exploration well) for each exploration sub-period
 - Economic terms with respect to the cost oil/gas recovery and to the profit oil/gas sharing
 - Minimum annual training budget during exploration and exploitation
 - Signature & Production bonuses
 - Short notice relating to the possible impact on and protection of the environment



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Submission of Applications



Criteria for Evaluation

- The Technical and Financial ability of the applicant
- The ways in which the applicant intends to carry out the activities that are specified in the licence
- The financial consideration that the applicant is offering in order to obtain the licence
- Any lack of efficiency and responsibility that the applicant has shown under any previous licence or authorisation of any form in any country of the world
- National security and public interest will also be taken into consideration

Gas Market Outlet: LNG







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Gas Market Outlet: LNG

- Evaluation for the construction of LNG plant: 15mtpa
- Gas production onshore Cyprus: mid 2014
- LNG plant starts operation: 2019





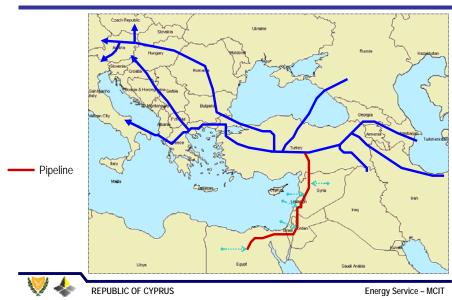
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Gas Market Outlet: South-North Energy Corridor





Oil & Gas Potential Offshore Cyprus: Conclusions

- Known hydrocarbon system in the vicinity
- Big hydrocarbon discoveries in the region
- Several structures identified offshore Cyprus with Direct Hydrocarbon Indicators
- Cyprus offers a stable business environment within the EU
- Access to the EU market and the Greater Mediterranean Region market
- Attractive terms offered (zero taxation on revenues from offshore hydrocarbon exploitation)



Offshore Cyprus: A promising new frontier with opportunities for high-potential hydrocarbon exploration activities





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