

Lebanon's First Offshore Licensing Round

The Pre-qualified Companies





Lebanon's First Offshore Licensing Round

The Pre-qualified Companies





It is with great pleasure that I welcome the pre-qualified oil and gas companies to participate in Lebanon's FirstOffshore Licensing Round. On the dawn of this new era in the history of Lebanon, we look forward to join forces with the oil and gas industry to ensure mutual success.

The oil and gas resources in Lebanon present both an opportunity and a responsibility. An opportunity for economic and social development of our nation, and a responsibility to protect the rights of future generations.

We strive to work with you on creating long term partnerships and models of cooperation, that integrates your commercial benefits into our national vision and interests.

The Lebanese State has achieved a lot in a short period of time. From enacting the Offshore Petroleum Resources law and issuing all related regulations and decrees, to surveying our land and water and appointing the Petroleum Administration whose efforts and efficiency in meeting their set milestones has made this day possible.

Last but not least, I assure you of the commitment of the Lebanese State in providing its full support and exerting all necessary efforts in ensuring a successful, transparent and efficient process all the way to production.

Gebran Bassil
Minister of Energy and Water



The Petroleum Administration (PA) has put in place the petroleum activities regulations required to launch the first Lebanese offshore licensing round. The **PA** opted to undertake a pre-qualification process for oil and gas companies that are interested in participating in the licensing round. The primary objective of the pre-qualification process is to ensure that highly qualified companies would be invited to participate in the first licensing round, and that subsequently may be awarded exclusive petroleum rights.

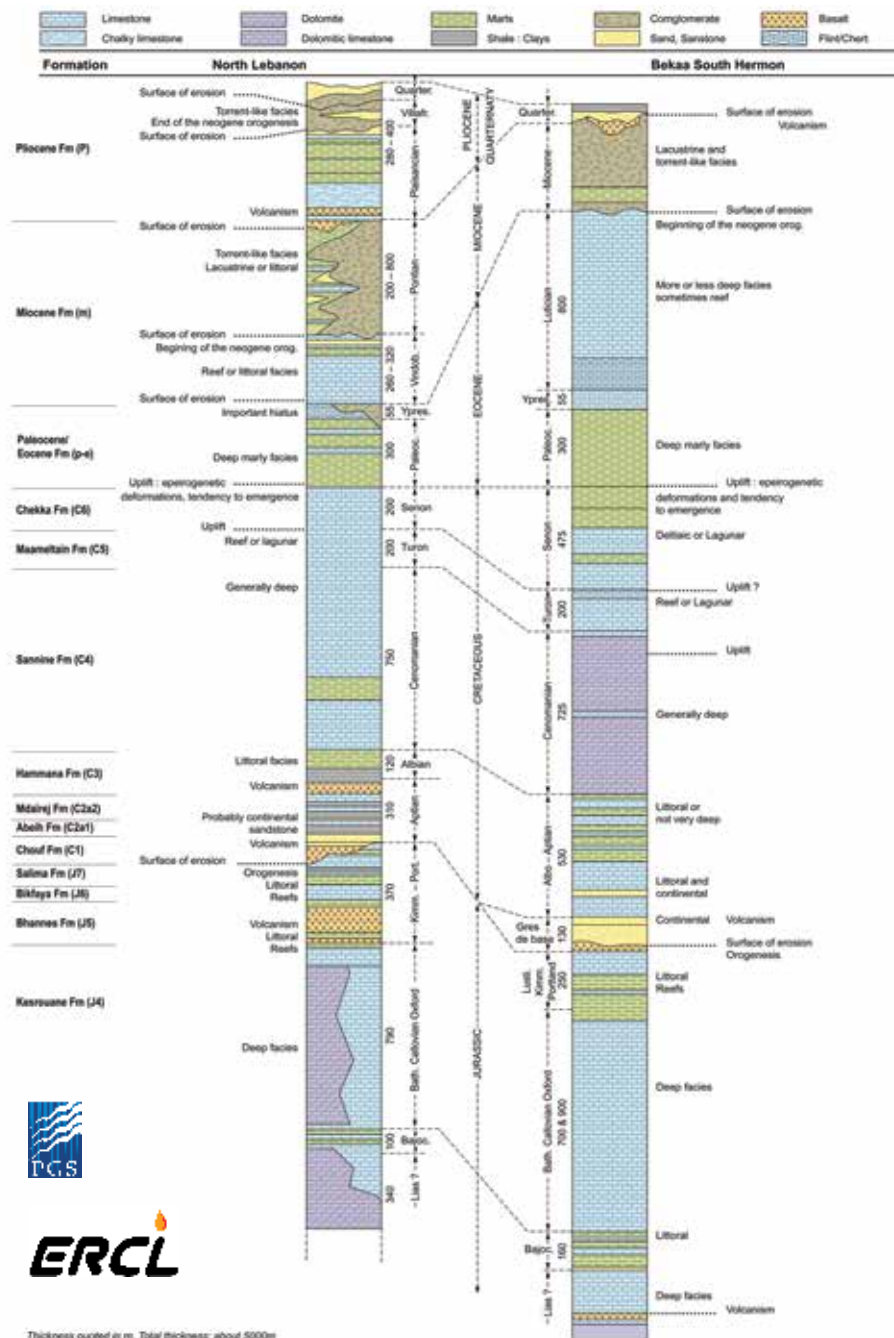
Fifty two companies from twenty five countries submitted their pre-qualification applications. A thorough evaluation process was undertaken by the **PA** by assessing the applicants against a set of legal, financial, technical, and QHSE criteria. The process followed a transparent, participatory approach where applicants and the **PA** communicated to clarify the pre-qualification criteria and process, as well as to ensure that all required information are submitted and cleared.

As a result, twelve applicants were pre-qualified as Right-Holders Operators and thirty four as Right-Holders Non-operators. The number and profile of the pre-qualified companies shows the vast interest of the international oil and gas industry in investing in the Lebanese offshore, and their trust in the management of the oil and gas sector in the country.

The **PA** looks forward to working together with the oil and gas companies to develop this sector in Lebanon, through supporting local economic growth, building human capital, and transferring knowledge, while ensuring sustainability of our resources.

The Petroleum Administration

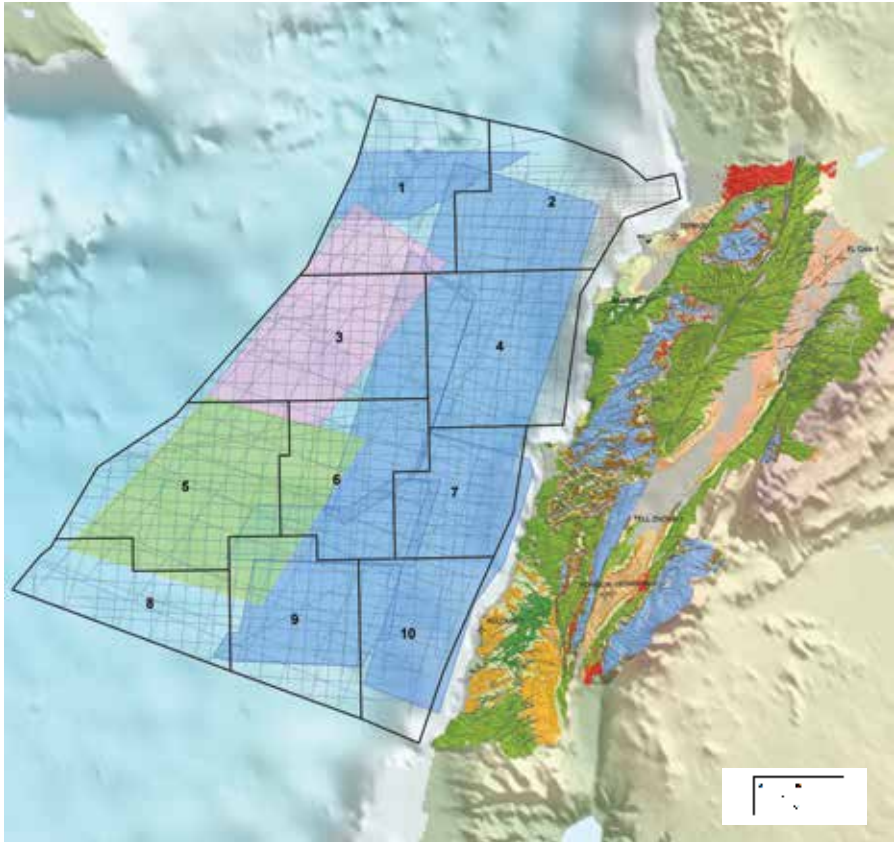
Stratigraphic Column



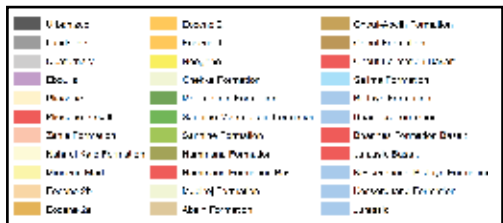
Onshore Geology

Seismic Data Coverage & Block Outlines

Subject to the approval of the Council of Ministers



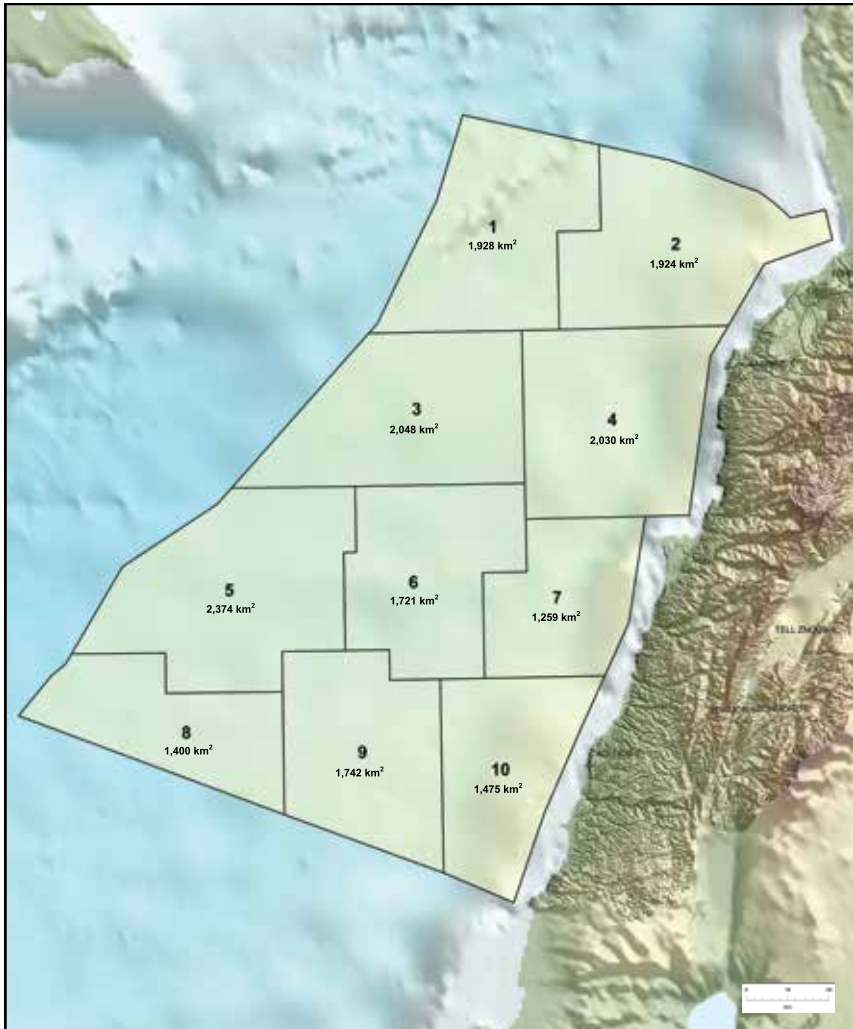
Block	Block Km ²	Status
1	1,928	Open
2	1,924	Open
3	2,048	Open
4	2,030	Open
5	2,374	Open
6	1,721	Open
7	1,259	Open
8	1,400	Open
9	1,742	Open
10	1,475	Open



Offshore Block Outlines

(as submitted to the Council of Ministers for approval)

Subject to the approval of the Council of Ministers



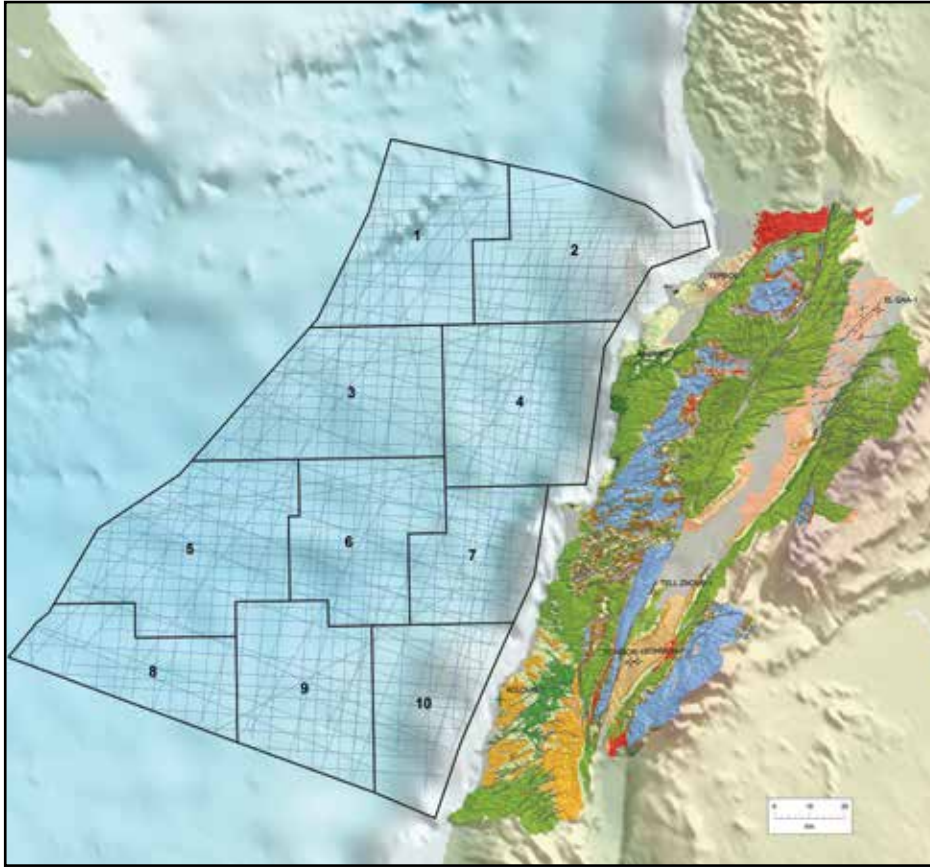
Block	Block Km ²	Status
1	1,928	Open
2	1,924	Open
3	2,048	Open
4	2,030	Open
5	2,374	Open

Block	Block Km ²	Status
6	1,721	Open
7	1,259	Open
8	1,400	Open
9	1,742	Open
10	1,475	Open

Onshore Geology

2D Seismic Data Coverage & Block Outlines

Subject to the approval of the Council of Ministers



Urbanized	Eocene 2	Chouf-Abcch Formation
Landslide	Eocene 1	Chouf Formation
Quaternary	Nagjona	Chouf Formation Basalt
Fiboulis	Chikka Formation	Salima Formation
Pliocene	Maameltein Formation	Bikfaya Formation
Pliocene Basalt	Sannine-Maameltein Formation	Bhannes Formation
Zahle Formation	Sannine Formation	Bhannes Formation Basalt
Nahr el Kalb Formation	Hammama Formation	Jurassic Basalt
Miocene Marl	Hammama Formation Basalt	Kesserouane-Bikfaya Formation
Eocene 2b	Mdeirej Formation	Kesserouane Formation
Eocene 2a	Abcch Formation	Jurassic

OPERATORS

Anadarko International O&G company	USA
Chevron Eastern Mediterranean Exploration and Production Limited	USA
Eni International BV	Italy
ExxonMobil Exploration and Production Lebanon Ltd	USA
Inpex Corporation	Japan
MAERSK Olie og Gas A/S	Denmark
Petrobras International Braspetro BV	Brazil
Petronas Carigali SDN BHD	Malaysia
Repsol Exploracion SA (REXSA)	Spain
Shell Exploration and Production (LXV) N.V.	Netherlands
Statoil ASA	Norway
TOTAL S.A.	France





Anadarko Petroleum Corporation is among the world's largest independent oil and natural gas exploration and production companies, with 2.56 billion barrels of oil equivalent (BBOE) of proved reserves at year-end 2012. **Anadarko** is committed to safely producing the energy our world needs in a manner that protects the environment, public health and supports our communities. Energy is fundamental to physical existence. It is as important as clean air, water and affordable food.

At **Anadarko**, we take our responsibility seriously to safely deliver resources to our energy-hungry world, and we hold true to our core values of integrity and trust, servant leadership, commercial focus, people and passion, and open communication in all of our business activities.



The company's portfolio of assets encompasses premier positions in U.S. onshore shales and resource plays in the Rocky Mountain region, the southern United States and the Appalachian Basin. The company also is a premier deepwater producer in the Gulf of Mexico, and has production in Alaska, Algeria, and Ghana. Additionally, **Anadarko** seeks to explore new opportunities by transferring our established skill sets to proven and emerging high-potential basins around the world in areas that offer significant growth and competitive contract terms. We hold large positions in highly focused regions, staying disciplined in the way we gain the positions and in how we proceed to test our ideas. Our talented explorers are finding new ways to enhance value in the following international growth areas: Alaska, China, Colombia, Brazil, East Africa (Mozambique and Kenya), Guyana, New Zealand, West Africa (Cote d'Ivoire, Ghana, Liberia and Sierra Leone) and South Africa.

In 2012, **Anadarko** continued to achieve an industry-leading success rate in its deepwater exploration and appraisal drilling programs. The company was successful on 67 percent of its deepwater wells in 2012, maintaining a five-year average above

70 percent. This included two of the world's largest discoveries according to IHS Energy, at the Golfinho and Atum prospects offshore Mozambique. Already in 2013, **Anadarko** announced one of its largest Gulf of Mexico discoveries at Shenandoah and additional exploration successes at Coronado and Phobos in the Gulf of Mexico and Orca offshore Mozambique.





Overview

Chevron is one of the world's leading integrated energy companies and conducts business worldwide. Our success is driven by our people and their commitment to get results the right way—by operating responsibly, executing with excellence, applying innovative technologies and capturing new opportunities for profitable growth. We are involved in virtually every facet of the energy industry. We explore for, produce and transport crude oil and natural gas; refine, market and distribute transportation fuels and lubricants; manufacture and sell petrochemical products; generate power and produce geothermal energy; provide energy efficiency solutions; and develop the energy resources of the future, including research for advanced biofuels.

Company Roots

We trace our beginnings to an 1879 oil discovery at Pico Canyon, north of Los Angeles, which led to the formation of the Pacific Coast Oil Co. That company later became Standard Oil Co. of California and, subsequently, Chevron. We took on the name Chevron when we acquired Gulf Oil Corporation in 1984, nearly doubling our worldwide proved crude oil and natural gas reserves. Our merger with Gulf was then the largest in U.S. history. Another major branch of the family tree is The Texas Fuel Company, formed in Beaumont, Texas, in 1901. It later became known as The Texas Company and, eventually, Texaco. In 2001, our two companies merged. The acquisition of Unocal Corporation in 2005 strengthened Chevron's position as an energy industry leader, increasing our crude oil and natural gas assets around the world.



Global Scope

Our diverse and highly skilled global workforce consists of approximately 57,000 employees and about 3,800 service station employees. In 2012, Chevron's average net production was 2.610 million barrels of oil-equivalent per day. Close to 75 percent of that production occurred outside the United States. Our marketing network supports retail outlets on six continents. And we have invested in 13 power-generating facilities in the United States and Asia.

Technology

Technology is propelling our growth. We're focusing on technologies that improve our chances of finding, developing and producing crude oil and natural gas.

Environment and Safety

As a company and as individuals, we take great pride in contributing to the communities where we live and work. We also care about the environment and are proud of the many ways in which our employees work to safeguard it.





Eni is a major integrated energy company, committed to growth in the activities of finding, producing, transporting, transforming and marketing oil and gas.

In these businesses it has a strong edge and leading international market position.

Eni men and women have a passion for challenges, continuous improvement, excellence and particularly value people, the environment and integrity.

Eni is active in 90 countries with 79,000 employees. Our commitment to sustainable development means that we grow and retain our people, contribute to the development and wellbeing of the communities in which we operate, protect the environment, and invest in technological innovation and energy efficiency, mitigating the risks of climate change. **Eni** is a recognised leader in sustainability, and is listed on the FTSE4Good and the Dow Jones Sustainability Indices.



Eni has a track record of exceptional exploration success: between 2008 and 2011 **Eni** discovered around 4 bn boe of new resources at a leading unit exploration cost of 1.7 \$/boe. New resources discovered in 2012 amounted to 3,6 bn boe. The exploration success is complemented by a strong pipeline of growth projects: between 2011 and 2015 **Eni** will add around 700kboe/d of new production, of which %80 will come from new giant projects with long plateau periods.

Eni has a leading position in European gas market, being one of the largest utilities in Europe, with a diversified gas supply portfolio and a strong position in the industrial, power generation and retail markets.

Eni is the leading exploration company in the Mediterranean region with a total of 1833 offshore wells drilled in the region since the late 1950.

The oil & gas industry recently shown significant attention to the Levantine Basin as it is one of the newest exploration frontiers with giant potential. In this basin in 2013 **Eni** was also awarded in international competitive tenders three exploration blocks offshore Cyprus and one block offshore Egypt, in line with the consolidation of **Eni**'s position in the Mediterranean Region, which is a strategic area in the company's exploration and production portfolio.



Energy is more than a commodity. It is an enabler of progress. Affordable and reliable energy supports rising living standards and job creation, and contributes to opportunities for better health, education, and social welfare. Sustaining such progress by meeting the world's growing demand for energy represents a tremendous challenge. It will require the development of all commercially viable energy sources and their production in growing quantities.

Exploration, Development, Production, Natural Gas and Power Marketing, and Research Activities

ExxonMobil's Up stream portfolio included high-quality exploration opportunities, an industry-leading resource base, a broad range of world-class development projects, and a set of diverse producing assets.

We significantly expanded our prospective exploration portfolio in 2011 with the successful capture of 24 new opportunities in seven countries. At year-end 2011, net exploration acreage totaled 61 million acres in 32 countries. This strong position provides us with a high-quality, geographically and geologically diverse portfolio of prospects that underpins future resource additions and production growth.

We have a large portfolio of more than 120 diverse projects that are expected to develop 23 billion oil-equivalent barrels, across a variety of environments, resource types, and geographic regions. We are developing 21 major projects in the next three years, and the number of major projects for 2015 and beyond exceeds 30.

In addition to an extensive project portfolio, we produce oil and gas in all major regions, including North America, Europe, Africa, the Middle East, Asia, and Australia.

Our Commitment to technology enables us to develop innovative solutions to improve safety, minimize environmental impact, reduce costs, increase reliability, and maximize resource value. Integrated technologies, have unlocked value from previously uneconomic resources, including heavy oil and those trapped in tight reservoirs, as well as in difficult environments such as the Arctic and deep water.



We are the Japan's leading Oil and Natural Gas E&P Company and have been expanding its oil and gas business as a "National Flagship Company" supported by the Japanese government, its largest shareholder (81.9%).

We have been engaged in exploration and production activities in many regions around the world with more than 70 Projects in 27 countries and are now in the process of developing two large scale LNG projects, the "Ichthys" in Australia (8.4 million tons/year) and the "Abadi" in Indonesia (Stage I development: 2.5 million tons/year) as the operator.

In the area of Middle East, Japan Oil Development Company, Ltd. (JODCO), a wholly owned subsidiary of INPEX, owns an interest in ADMA Block offshore in United Arab Emirates. Oil production currently spans five fields in the block (Upper Zakum, Umm Al-Dalkh, Satah, Umm Shaif, Lower Zakum oil fields).

INPEX SOUTH IRAQ, Ltd contracted with South Oil Company of Iraqi Ministry of Oil as partner of Lukoil Overseas Iraq Exploration, and started exploration work in Onshore Block in Iraq.



*Ichthys LNG Project
Project Development Concept*



Maersk Oil is an international oil and gas company with operated production of about 600,000 barrels of oil equivalent per day. We produce oil and gas in Denmark, the UK, Qatar, Kazakhstan, Brazil and Algeria. Exploration activities are ongoing in Angola, Norway, the US Gulf of Mexico, Greenland and in the producing countries.

Turning marginal and challenging fields into commercial successes has been the cornerstone of **Maersk Oil's** business since 1962. **Maersk Oil** focuses on pioneering technologies and harnessing talent to continue to operate safely and successfully, creating value for partners and host governments. **Maersk Oil** and its subsidiary companies are part of the Danish A.P. Moller – Maersk Group.

We will grow our reserves base by deploying and further developing our technologies in already known geographical areas like the North Sea. At the same time we will make technological steps enabling us to master new technologies such as deepwater operation and Enhanced Oil Recovery. This combination ensures that we keep our leading position in our core countries and also create opportunities in new areas such as West Africa and the US Gulf of Mexico.

Our perspective and strategy for the oil business is focused on the long term and we believe that we have a significant role to play in the future security of the energy supply to the world.



Petrobras is driven by the challenge of supplying the energy that can propel development and ensure the future of the society with competency, ethics, cordiality, and respect for diversity.

We are a publicly traded corporation, the majority stockholder of which is the Government of Brazil, and we perform as an energy company in the following sectors: exploration and production, refining, oil and natural gas trade and transportation, petrochemicals, and derivatives, electric energy, biofuel and other renewable energy source distribution.

A leader in the Brazilian oil industry, we have expanded our operations aiming to be among the top five integrated energy companies in the world by 2020. We have a presence in 25 countries. The 2017-2013 Business Plan calls for investments in the order of 236.7\$ billion

We have upwards of 100 production platforms, 16 refineries, 30,000 kilometers of pipelines and more than 6,000 service stations. Our proved reserves are around 14 billion barrels of oil, a figure expected to double in the next few years. With the discovery of oil and gas in the pre-salt region, Brazil may become the world's fourth biggest oil producer in 2030.





PETRONAS

PETRONAS at a Glance

Ranked among the largest corporations in the world, PETRONAS is a fully integrated oil and gas corporation with operations spanning across exploration, development and production of crude oil and natural gas in Malaysia and overseas; the liquefaction, sale and transportation of Liquefied Natural Gas (LNG); the processing and transmission of natural gas including power generation and the sale of natural gas products; the refining and marketing of petroleum products; the manufacture and sale of petrochemical products; the trading of crude oil, petroleum products and petrochemical products; and shipping and logistics relating to LNG, crude oil and petroleum products.

PETRONAS Exploration & Production (EP) carries out exploration, development and production of oil and natural gas resources across five continents through its wholly owned subsidiary PETRONAS Carigali Sdn Bhd. On the global front, PETRONAS Carigali Sdn Bhd is a renowned exploration and production operator – known for its resilience and distinctive capabilities in the upstream sector. PETRONAS Carigali Sdn Bhd's capabilities and track record of successful onshore and offshore developments in the oil and gas industry have earned us reputable operatorship in many ventures across the world.



2012 Achievements:

- Overall Resource Replenishment Ratio (ORRR) of 2.0x
- 2,010 kboed of total E&P production
- 32 first oil and gas production : 11 greenfields and 21 brownfields
- 546 mmoeb of reserves developed
- 24 new discoveries
- 2,077 mmoeb of resource addition
- Total Capital Expenditure (CAPEX) of USD9.1 billion with exploration expenditure of USD1.8 billion

Global Business Dimensions:

- 64 partners
- 10,500 employees over 50 nationalities
- More than 50 development projects
- 204 producing oil and gas fields
- Over 300 drilled exploration and development wells
- 67 rigs onshore and offshore
- 19 FPSO / FSO

Our Experience in Resource Playtypes:

- Heavy oil
- Deepwater
- Basement oil
- Tight gas
- Onshore
- HPHT
- EOR
- High CO2 Gas
- Coal bed methane
- Shale gas

PETRONAS is committed to its pursuit of business excellence and sustainable long-term growth. Over the years, PETRONAS has also successfully implemented various social, environmental and community programmes as part of its Corporate Sustainability Framework in carrying out business in a socially responsible and holistic manner to ensure continued growth and success for the benefit of both the present and future generations.

www.petronas.com





Our vision is: A global company that seeks the welfare of people and is a step ahead in building a better future through the development of smart energy.

Our working philosophy is based on seven values:

Team Repsol, Environmental commitment, Responsibility to the social environment, Technological innovation, Transparency, Trusted products and services and business solidity.

Our Strategic lines:

High growth of Upstream (Exploration and Production), Maximizing returns from Downstream and LNG, Financial strength and Competitive compensation to shareholders. The Exploration and Production area is the company's engine for growth, with investment focused on its exploration activity and 10 key growth projects, including some of Repsol's biggest exploratory successes in recent years. In these 10 projects, the company will focus its activities on Brazil, the United States, Russia, Spain, Venezuela, Peru, Bolivia and Algeria.

We welcome the opportunity to participate in The Republic of Lebanon's First Offshore Licensing Round and look forward to the opening up of this area of the Eastern Mediterranean for petroleum exploration.





Shell aspires to a longstanding partnership with Lebanon.

With around 87,000 employees in more than 70 countries, **Shell** aims to help meet the energy needs of society in ways that are economically, environmentally and socially responsible. **Shell's** partnerships in the Middle East stretch back over a century. Today, **Shell** is involved in exploration and production in Abu Dhabi, Egypt, Iraq, Jordan, Kuwait, Oman, Qatar, and Saudi Arabia.

Shell is a leader in deepwater exploration and continues to produce deepwater world “firsts”. **Shell's** global portfolio of deepwater projects demonstrates leading technical and project deployment capabilities in some of the world's most challenging environments. **Shell** has been at the cutting edge of deepwater development for more than 30 years with innovative technology, world-class project management skills and, not least, a stable core of outstanding people responsible for the success we have enjoyed in this challenging arena. **Shell** remains committed to world-class research and development.

A pioneer in liquefied natural gas (LNG), with more than 45 years of expertise and a successful track-record in the industry, **Shell** is one of the world's largest LNG producers with one of the most diverse supply and market access portfolios. It holds the largest equity share of LNG capacity among international oil companies. **Shell** is a leader in LNG technology across the entire value chain and the first company in the world to commit to Floating LNG - a groundbreaking innovation where **Shell** is uniquely positioned to make it a success given our commercial capability, our technology position in LNG, offshore and deepwater, and our proven ability to successfully deliver megaprojects.





Statoil is an international energy company with operations in 36 countries. Building on 40 years of experience from oil and gas production on the Norwegian continental shelf, we are committed to accomodating the worlds' energy needs in a responsible manner, applying technology and creating innovative business solutions.

Statoil in a journey from mainly the Norwegian offshore company to a global energy player. Based on experience from the Norwegian Continental Shelf, we have taken positions in several of the world's most prolific oil and gas provinces.

As global demand constantly grows, ever greater pressure is put on the world's energy services. In satisfying this demand we have to minimize the impact on our environemnt. This is the reality we face and this is the challenge we're taking on.





TOTAL is the fifth largest publicly-traded integrated international oil and gas company in the world. With operations in more than 130 countries, **TOTAL** has activities in every sector of the oil industry: in the upstream (oil and gas exploration, development and production, liquefied natural gas) and downstream (refining, petrochemicals, specialty chemicals, the trading and shipping of crude oil and petroleum products, marketing). In addition, **TOTAL** has equity stakes in coal mines and operates in the power generation and renewable energy sectors.

TOTAL began its Upstream operations in the Middle East in 1924. Since that time, the Company has grown and expanded its operations worldwide.

TOTAL's Upstream segment includes the activities of Exploration & Production and Gas & Power. The Group has exploration and production activities in more than fifty countries. Gas & Power conducts activities downstream from production related to natural gas, liquefied natural gas and liquefied petroleum gas, as well as power generation and trading.

TOTAL's Exploration & Production division is meeting the challenges of finding new oil and gas reserves and increasing its production in a manner respectful of human safety and the environment. Through bold exploration, large-scale projects developed using pioneering technologies, and ongoing innovation, **TOTAL** is conquering new energy frontiers. Wherever it operates, **TOTAL** is committed to fulfilling stakeholder expectations for shared, responsible and lasting growth.



TOTAL has earned its place in oil-industry history as a deepwater pioneer. As early as 1982, in the Mediterranean, the Group successfully drilled the first experimental well under 1,714 meters of water. **TOTAL's** record of achievement has earned the Group operatorship on twelve developments currently in production, under construction or under study in the deepwater sectors of the Gulf of Guinea (Angola – where first oil on the Girassol field was achieved just six years after discovery, Congo, Nigeria) and the North Sea. With each new project, the Group's R&D teams manage to invent solutions to overcome increasingly stringent constraints. In 2011, in Angola, **TOTAL** became the first in the world to implement subsea separation of gas and liquids under 800 m of water. This step-change in technology resolves the challenge of producing the heavy, viscous oils of three out of the permit's four fields.

Upstream Key Figures

- 2.3 Mboe/d of hydrocarbons produced in 2012
- 11.4 Bboe of proved reserves as of December 2012 ,31
- Capital expenditure for 19.6€ :2012 billion
- 18,045 employees

More on www.total.com



NON OPERATORS

Cairn Energy Plc	Great Britain
Cairn India Limited	India
CC Energy Limited	Lebanon
Crescent Petroleum Company International Limited	UAE
Crescent Petroleum Company International Limited & Apex Gas Limited	UAE/Hong Kong
Dana Gas PJSC	UAE
Dana Petroleum E&P Limited	Great Britain
Dragon Oil	UAE
Edison International SpA	Italy
GDF Suez E&P International S.A.	France
Genel Energy Plc.	Turkey/Great Britain
GeoPark Holdings Limited / Petroleb SAL	Bermuda/Lebanon
Heritage Oil Plc	Great Britain
INA-INDUSTRIJA NAFTE, d.d	Croatia
Japan Petroleum Exploration Co. Ltd.	Japan
JX Nippon Oil & Gas Exploration Corporation	Japan
KOREA GAS CORPORATION (KOGAS)	South Korea
Korea National Oil Company	South Korea
Kuwait Foreign Petroleum Exploration Company K.S.C.	Kuwait
LUKOIL Overseas Lebanon B.V.	Russia
Marathon oil	USA
MDC Oil and Gas Holding Company LLC	UAE
Mitsui E&P Middle East B.V.	Japan
MOL Hungarian Oil and Gas Company Plc	Hungary
OAQ Novatek & GPB Global Resources B.V.	Russia
OMV AKTIENGESELLSCHAFT	Austria
ONGC Videsh Limited (OVL)	India
Petroceltic International Plc	Ireland
PTT Exploration and Production Public Company Limited	Thailand
Rosneft Oil Company	Russia
Santos Limited	Australia
SOCO International PLC	Great Britain
Suncor Energy Inc.	Canada
Turkiye Petrolleri Anonim Ortakligi	Turkey



Our approach

Our aim is to discover, develop and deliver value from our assets and people for the benefit of all our stakeholders. We are an entrepreneurial oil and gas explorer and developer with a -20year track record of delivering transformational value for all our stakeholders.



Our mission

We aim to be pioneers within a balanced portfolio. We are partners: we work with governments, joint venture associates, communities and suppliers to deliver value for all our stakeholders. Our vision is to create an exploration-led and sustainable cash generative oil and gas business offering shareholders exposure to material capital growth potential. Our strong balance sheet and retained interest of %10 in Cairn India gives us the financial flexibility to invest in assets that make commercial sense to our business.

Exploration, development and production

Cairn has a proven track record of creating transformational growth and delivering significant value through exploration and development. Both are important parts of a well-balanced oil and gas portfolio. Cairn's success stems from being pioneers and partners. We focus on identifying assets that are capable of providing significant and sustainable growth, capturing as high an equity position as possible in frontier areas, using our strong technical and commercial expertise and working with our partners to take our assets from discovery to development safely.

Protecting the environment

The safety of the environment where we operate is also vitally important to us. Throughout our global activities before operating in any new area, we assess the potential impacts of our activities in order to avoid any impact where possible, and if not possible in order to identify ways to mitigate against these and design our plans accordingly.

Contributing to local communities

Wherever we work, we aim to develop long-term partnerships with local communities and work with them where possible to develop sustainable economic, social and environmental initiatives. We encourage local people to contribute to, and benefit from, our projects and believe that by working together we can succeed together. The benefits from our operations can include: energy, infrastructure, employment and trade with local enterprises.

Key facts

- One of Europe's leading oil and gas exploration and development companies
- Headquarters in Edinburgh, with operational offices in Nuuk (Greenland), London (UK), Stavanger (Norway) and Madrid (Spain)
- Listed on the London Stock Exchange in 1988
- Focused on exploration opportunities with transformational potential within a balanced portfolio of lower risk exploration and development assets
- Returned a total of 4.5\$ billion to shareholders in the last five years
- Focused on three geographic regions; Atlantic Margin, Mediterranean and UK & Norway
- Assets in Greenland, Spain, Morocco, UK, Norway, Malta, France, Albania and Nepal
- Cairn is the largest acreage holder in Greenland; eight of the fourteen wells drilled in Greenland to date have been drilled by Cairn.



Cairn India is one of the largest independent oil and gas exploration and production companies in India. **Cairn India** and its JV partners account for more than 20 percent of India's domestic crude oil production.

Cairn India has been operating in India for more than 15 years and has played an active role in developing the oil and gas resources. The Mangala field in the Rajasthan block, Barmer was discovered in January 2004. The field was dedicated to the nation in August 2009 by the Hon'ble Prime Minister of India, Dr. Manmohan Singh. This discovery is considered to be the largest onshore oil discovery in India in more than two decades. To date, 25 discoveries have been made in the Rajasthan block and the company is focused on exploiting the full potential.

Cairn India has a world-class resource base, with interest in eight blocks in India, one in Sri Lanka and one in South Africa. **Cairn India's** resource base is located in four strategically focused areas namely one block in Rajasthan, two on the west coast of India, four on the east coast of India, one in Sri Lanka and one in South Africa. On 9 January 2007, **Cairn India** Limited was listed on the Bombay Stock Exchange and the National Stock Exchange of India. The Initial Public Offering (IPO) of **Cairn India** was the then largest IPO in the Indian primary equity markets and with a market capitalisation in excess of USD 12 billion.



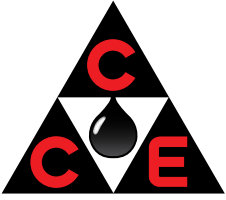
The IPO had attracted a number of quality investors including the likes of Petronas thereby underscoring international confidence on the Indian regulatory environment, equity markets and the potential of hydrocarbon development in the country. **Cairn India** was adjudged the fastest growing energy company in the world at the Platts Top 250 Energy Company Awards 2012. The Company won 16 awards in the 26th Mines Safety week 2012 under the aegis of Directorate General of Mines Safety (DGMS), Ajmer, India.

The listing on the Indian bourses gives us the right platform to sustain the pace and momentum for the next phase of our development by:

- Providing the foundation for an Indian oil and gas company
- Ensuring we are well positioned to take advantage of Indian growth opportunities
- Capitalising on our strong development and operational expertise
- Increasing our base of executive and management decision-makers

Cairn India is committed to continuing investment in India and worldwide and is very much focused on creating shareholder value by developing its world class resource base and seeking to continue its track record of exploration success.





CC Energy (CCE) is a privately owned Lebanese upstream oil and gas exploration and production company that is associated with the major oil and gas engineering and construction conglomerate Consolidated Contractors Group (CCG). Through its subsidiaries **CCE** operates Blocks 4 & 3 in the Sultanate of Oman where it has made numerous oil discoveries and is currently producing over 15,000 bopd.

Moreover, through its associated companies **CCE** has over 20 years of exploration, development, and production experience in the oil and gas industry both as an operating partner and non-operating co-venturer in partnership with other major IOCs.

CCE currently has assets in Yemen, Nigeria, and Palestine and has been one of the pioneering investors in deep offshore gas exploration in the Eastern Mediterranean where it is currently partners with BG in the Gaza Marine Discovery, one of the earliest gas discoveries made in the Levant region.





شركة نفط الهلال
Crescent Petroleum

Crescent Petroleum, of the Crescent Group of Companies, commenced business in the early 1970s as the very first independent privately-owned upstream oil and gas company in the Middle East. The Company has headquarters in Sharjah, UAE, and operates a network of offices worldwide.

The Company has operational experience across the Middle East, principally the UAE, Iraq, Egypt and Yemen, also in Pakistan, Canada, Argentina, and the former Yugoslavia.

Within the UAE, **Crescent Petroleum** had been the sole operator of the Mubarek Field offshore Sharjah for 40 years, managing all petroleum operations during that period. The Company is currently exploring a large concession onshore Sharjah, investing largely in seismic work and exploration drilling, in partnership with the major Russian oil company Rosneft. The company is also engaged in other petroleum operations in the UAE.



In Iraq, **Crescent Petroleum** and its affiliate Dana Gas PGSC are jointly engaged in a fast track project in the Kurdistan Region under contract with the Regional Government. The total investment has

exceeded US\$ 1billion, the single largest oil and gas investment in the country to date. The project has entailed developing and producing gas from two main gas fields, constructing gas processing plants, laying a 180 km gas pipeline and transporting processed gas to feed two power stations all within a record time of 15 months. The current daily production is more than 80,000 barrels of oil equivalent. Two major European companies, Hungary's MOL and Austria's OMV joined the project in May 2009 as minority partners.

Crescent Petroleum also invests in maximizing the value chain of produced gas wherever possible through its affiliate company, Gas Cities, which is currently in negotiations with a number of regional governments to implement large scale gas-intensive industrial cities, utilizing local gas resource for the benefit of the host countries. Other Crescent Group companies such as Crescent Investments are also highly active in global port, transport, construction, logistics, and many other related activities.

Crescent Petroleum has a recognized status as an established leading Middle East oil and gas company, with a deep knowledge of the culture and business environments of the region, as well as excellent relationships with the main stakeholders in various countries of the region. The Company thus finds itself, alone or with partners, uniquely positioned to identify and develop oil and gas projects in the MENA region, such as the highly prospective exploration blocks offshore Lebanon.





شركة Crescent Petroleum

Crescent Petroleum & Apex Gas Limited

Crescent Petroleum, of the Crescent Group of Companies, commenced business in the early 1970s as the very first independent privately-owned upstream oil and gas company in the Middle East. The Company has headquarters in Sharjah, UAE, and operates a network of offices worldwide.

The Company has operational experience across the Middle East, principally the UAE, Iraq, Egypt and Yemen, also in Pakistan, Canada, Argentina, and the former Yugoslavia.

Within the UAE, **Crescent Petroleum** had been the sole operator of the Mubarek Field offshore Sharjah for 40 years, managing all petroleum operations during that period. The Company is currently exploring a large concession onshore Sharjah, investing largely in seismic work and exploration drilling, in partnership with the major Russian oil company Rosneft. The company is also engaged in other petroleum operations in the UAE.



In Iraq, **Crescent Petroleum** and its affiliate Dana Gas PGSC are jointly engaged in a fast track project in the Kurdistan Region under contract with the Regional Government. The total investment has exceeded US\$ 1billion, the single largest oil and gas investment in the country to date. The project has entailed developing and producing gas from two main gas fields, constructing gas processing plants, laying a 180 km gas pipeline and transporting processed gas to feed two power stations all within a record time of 15 months. The current daily production is more than 80,000 barrels of oil equivalent. Two major European companies, Hungary's MOL and Austria's OMV joined the project in May 2009 as minority partners.

Crescent Petroleum also invests in maximizing the value chain of produced gas wherever possible through its affiliate company, Gas Cities, which is currently in negotiations with a number of regional governments to implement large scale gas-intensive industrial cities, utilizing local gas resource for the benefit of the host countries. Other Crescent Group companies such as Crescent Investments are also highly active in global port, transport, construction, logistics, and many other related activities.

Crescent Petroleum has a recognized status as an established leading Middle East oil and gas company, with a deep knowledge of the culture and business environments of the region, as well as excellent relationships with the main stakeholders in various countries of the region. The Company thus finds itself, alone or with partners, uniquely positioned to identify and develop oil and gas projects in the MENA region, such as the highly prospective exploration blocks offshore Lebanon.





Dana Gas is the Middle East's leading private sector natural gas company producing some 65,000 barrels of oil equivalent per day of oil, gas and natural gas liquids from its operations in Egypt and the Kurdistan Region of Iraq. The company has proved plus probable reserves of 152 million barrels of oil equivalent and a resource potential of some 900 million barrels from its world class acreage in Egypt and Iraq.

Dana Gas is a rapidly growing company targeting a doubling in production over the 2013 – 2011 period from its 2010 average of 55,500 barrels of oil equivalent per day.

Established in 2005 with over 300 prominent founder shareholders from across the Gulf Cooperation Council (GCC) region, **Dana Gas** is listed on the Abu Dhabi Securities Exchange (ADX).

Headquartered in Sharjah in the UAE, Dana Gas has a network of offices in Kurdistan Region of Iraq and Egypt.

Dana Gas' primary area of activity is in the upstream sector (exploration and production) with activities and the Company also operates in the midstream and downstream sectors, in particular where it adds value to its upstream activities. The Company has a geographic focus on the Middle East, North Africa and South Asia (MENASA) Region.





Dana Petroleum is an oil and gas exploration and production company based in Aberdeen, United Kingdom and has been owned by the Korean National Oil Company (KNOC) since 2010. Originally operating in the UK, we are now a 4\$ billion company with exploration and production operations in the UK, Egypt, Norway, the Netherlands and Africa.

As part of the KNOC, **Dana** has a unique opportunity to develop and grow, with a long-term focus. We will play a central role in helping KNOC achieve its goals to reach 300,000 barrels of oil production by 2012 and 1.2 million by 2030. **Dana** currently produces 60,000 barrels a day, and we want to double that production to more than 100,000 barrels a day by 2016. Each year between now and then, we'll invest 1\$ billion to achieve this goal.

Our ambition is to become a leading international oil and gas company operating in Europe, the Middle East and Africa, markets where we already have successful operations and we see great opportunities for growth, both organically and through acquisitions.

Our participation in the Lebanon's 1st Offshore Licensing Round is a key part of that growth strategy, providing access to a frontier province in which we see significant exploration potential.





Dragon Oil Plc is an independent international oil and gas exploration and production company, quoted on the London and Irish Stock exchanges (ticker: DGO). Our majority owner is the Government of Dubai. Our principal producing asset is a %100 working interest in the Cheleken Contract Area, offshore Turkmenistan, where we have safely and successfully operated for over 13 years.

During this time, **Dragon Oil** has increased average gross daily production from about 7,000 bopd to over 73,500 bopd (exit rate as of year-end 2012). Our natural gas production is about 165 million scf/day. Our gross reserves are 677 million bbls of proven and probable oil, along with 3 tcf of gas reserves/resources as of 31 December 2012. Over the course of our operatorship, our reserves replacement has been %190, as we have successfully overcome difficult reservoir and logistics challenges. We are targeting 100,000 bopd production by 2015.

We have exploration interests in Tunisia, Iraq and Afghanistan, where we (in a consortium) have been named the winner bidder for two exploration blocks.



Dragon Oil is based in Dubai, UAE, where we have a complete array of operations, technical, engineering, projects, purchasing, financial, HR, training and managerial capabilities. Our employee base is multinational, totaling about 1400 and encompassing some 40 nationalities. In Turkmenistan, over %92 of our employees are Turkmen citizens.

We are committed to a strong and active program of corporate social responsibility, and support key local initiatives in our host countries in the areas of education, health and infrastructure. **Dragon Oil** is founding member of IHSAN, an oil industry non-profit organization dedicated to increase the availability of safe drinking water and adequate sanitation. Towards this end, **Dragon Oil** built and operates a desalination unit to provide drinking water to the town of Hazar, Turkmenistan, near our base camp.

Our operations are certified to ISO 14001 ,9001 & OHSAS 18001 standards.

Dragon Oil is strong financially. Our market cap is about 4.7\$ billion. Our cash on hand is about 1.7\$ billion, and we have no debt. Net income after tax in 2012 was 600\$ million.

With a proven technical and operational track record, financial strength and commitment to an active program of community support, **Dragon Oil** is committed to bring value to our host countries and local workforce as a "Good Partner and a Good Neighbor."



Edison is Europe's oldest power company and one of Italy's energy market key players. For 130 year **Edison** has always been active in the energy industry. E&P operations have grown, in the last decades establishing an international outfit. In the E&P sector, **Edison's** mission is: to develop the portfolio of assets both in Italy and abroad, widen the geographic footprint of the group and grow reserves and production.

As of the end of December 2012 **Edison** owned 361 MMboe of gas and crude oil reserves. In Italy **Edison** is active with 58 concessions and permits. **Edison's** E&P efforts date back to the 50's and at the time were focused on Italy. At the end of the 80's, the maturity of the Italian market led **Edison** to start operations abroad, beginning with countries in the Mediterranean Basin. Within the Mediterranean basin **Edison** still concentrates nowadays %100 of its producing assets. Main area of interest are Egypt, Croatia, and Algeria.



Vega Oil Field – “Vega A” production platform and “Leonis” FSO Offshore Sicily

In Egypt **Edison** holds a %100 operated participating interest in the Abu Qir concession in the Nile Delta and operates the West Wadi El Rayan license, in the Western Desert.

Edison has also a participating interest in the Rosetta offshore production license. **Edison** has been active in Algeria since the late 90' developing a wide experience of the country's exploration themes. In offshore Croatia **Edison** owns an operated participating interest in a gas production asset.

In the last decade **Edison** expanded its operations outside of the Mediterranean. An initial phase of expansion saw **Edison** presence in West Africa, (Senegal and Ivory Coast) where the company still has an active presence. Currently the biggest area of activity are North Sea that will be the next production cluster in E&P operations.

Edison activity in Norway started in 2007; the current portfolio includes 16 licenses, 3 of which are operated by **Edison**. In the UK Continental Shelf **Edison** is active through its fully owned subsidiary Euroil, a JV partner in two licenses on the Markam field.

Edison's interest in working in Lebanon stems from the business opportunity the country offers coupled with its geological potential and the close proximity with other assets and interests **Edison** owns in the Eastern Mediterranean; Lebanon could play a key role in **Edison** strategy in the area.

« **GDF SUEZ E&P International** represents a key business in the integration of the GDF SUEZ Group across the gas chain. **GDF SUEZ E&P International's** approach is based on three main features:

- Taking advantage of its position in Europe in order to maximize the value of its assets through in-depth knowledge of the area, its strong presence, exploration portfolio and costs;
- Supporting GDF SUEZ in its development of high-growth zones by fostering synergies with other Group entities, especially through integrated projects in LNG or electricity production;
- Performing its activities within a sustainable development perspective by consolidating its health, safety and environmental performance and contributing to the reduction of CO2 emissions while respecting ethical regulations.

For several years, **GDF SUEZ E&P International** has been consolidating its position in Europe and, at the same time, deploying itself in different regions across the globe.

Currently, most of the production of **GDF SUEZ E&P International** comes from its historical European affiliates: Germany, Norway, the Netherlands and the United Kingdom. This production is constantly increasing; for the last six years, it has increased by an average of %22.7.

In order to develop its portfolio of 2P reserves and production, **GDF SUEZ E&P International** plans to expand the projects in Middle East, North Africa and the Caspian Sea (Azerbaijan), to accelerate its development in Asia (e.g. Indonesia) and in the Arctic (the Barents Sea and Greenland), to consolidate its LNG project in Australia and to develop its position in new areas with strong growth (e.g. East Africa, Latin America), while maintaining its position in the current production areas in northern Europe.



In that respect, GDF SUEZ is very interested in considering the exploration potential of Lebanon.

GDF SUEZ E&P always carries out its work with respect for ethics and a view for sustainable development.”

Genel Energy plc is an Anglo-Turkish exploration and production company with world-class oil and gas resources. We are the largest independent oil producer in the Kurdistan Region of Iraq and the first Turkish business to list on the Main Market of the London Stock Exchange. Currently, we have a market capitalisation of 3.5\$ billion and boast significant financial strength, with over 1\$ billion of cash on the balance sheet as at 31 December 2012.

Genel signed the first ever Production Sharing Contract with the Kurdistan Regional Government in 2002 and has been instrumental in the development of the Region's flourishing oil and gas industry:

- Largest holder of reserves and the largest producer of oil in the Kurdistan Region;
- Interests in the two largest producing fields of Taq Taq (operator) and Tawke;
- Interest in the two largest gas development projects of Miran (operator) and Bina Bawi expected to commence exports to Turkey in 2015;

- Leading negotiations on behalf of contractors in the Kurdistan Region on a gas sales agreement with Turkey.

Since 2011, we have embarked on a successful international expansion into the Mediterranean and Africa. We intend to continue our international expansion in 2013 and hope that the Lebanon licencing round will provide this opportunity.

- In the last 12 months we have acquired material interests in 7 licences across offshore Malta, offshore Morocco, offshore Cote D'Ivoire and onshore Somaliland.
- An extensive 5 well per annum Africa/Mediterranean drilling campaign will commence in the fourth quarter of this year that includes 7 offshore wells in the next two years.



As the largest independent Turkish energy company, **Genel Energy** has strong longstanding relationships with all parts of the Turkish Government. The growing Turkish energy supply deficit along with its proximity to Lebanon means that Turkey is the ideal market for any future discoveries. We believe **Genel's** Turkish heritage and relationships will prove valuable in developing this outcome."

GeoPark was founded by experienced international oil and gas operators to become a leading independent oil and gas explorer, operator and consolidator in Latin America by leveraging its technical expertise, cost control discipline and long term opportunistic approach to value creation. Since its founding, the Company has grown rapidly by exploiting the dynamic oil and gas business environment in Latin America. A one of the richest and most under-explored hydrocarbon regions in the world, Latin America provides a unique opportunity for a low cost, technically capable, exploration oriented, regionally-based operator.

GeoPark's current holdings include 17 petroleum blocks (3 blocks in Argentina, 8 blocks in Colombia, and 6 blocks in Chile – 3 of the blocks in Chile are subject to regulatory approval) totaling over 3.9 million acres – and associated infrastructure, production facilities, operating licenses, and an extensive technical data base. As of December 2010, independent petroleum engineers reported that the company on its Argentinean and Chilean properties has proven, probable and possible oil and gas reserves of 156.8 million barrels of oil equivalent (BOE).

The International Finance Corporation of the World Bank became a **GeoPark** shareholder in 2006 with a commitment to provide further funding and support to the company. In March 2010, LG International Corporation, the Korean conglomerate, and **GeoPark** entered into strategic partnership to jointly acquire and develop upstream oil and gas projects in Latin America. In 2011, LG International acquired a %20 interest in **GeoPark's** Chilean properties.

www.geo-park.com

With a strong dedication to Lebanon and its people, and a solid business and technical abilities through strong partnerships with international industry leaders, **Petroleb** has consolidated its position as solid Lebanese oil and gas company.

Petroleb is a joint stock company which was first established in the Republic of Lebanon in 2011. It is headquartered in Beirut, Lebanon, with a regional representation office in Al-Khobar, Kingdom of Saudi Arabia.

Petroleb aims to mainly operate in Lebanon covering all the aspects of the upstream oil and gas business. It has partnered with major international oil and gas companies to acquire the necessary technical support to:

- Professionally explore and develop Lebanon's hydrocarbon resources.
- Operate facilities in a safe and environment-friendly manner
- Develop and train mainly Lebanese technical and operational staff.

Those partnerships have been a strong driver to form a leading consortium aimed to successfully bid for exploration offshore Lebanon, and to positively and actively contribute to the development of the emerging country's oil and gas industry.

www.petroleb.me



Heritage Oil Plc is an independent oil and gas exploration and production company with a Premium Listing on the London Stock Exchange (symbol HOIL). The Company is a member of the FTSE 250 Index. The Company has Exchangeable Shares listed on the Toronto Stock Exchange (symbol HOC) and the London Stock Exchange (symbol HOX). The Company has producing properties in Nigeria and Russia and exploration assets in Tanzania, Papua New Guinea, Malta, Pakistan and Libya.



Heritage through a company called Shoreline Natural Resources Limited, has a %45 participating interest in OML 30, a producing oil mining licence in Nigeria. OML 30, located onshore in the delta region, covers 1,097 square kilometres and includes eight producing fields and associated infrastructure, including an interest in a segment of the Trans Forcados pipeline. OML 30 has gross proved and probable reserves of 1,114 mmbbls of oil, estimated by independent technical consultants RPS Energy Consultants Limited (“RPS Energy”). Production for November 2012 was 35,700 bopd. The acquisition of this world class asset provides **Heritage** with a step change in cash flow, production and reserves.

Heritage has an exceptional track record of generating shareholder value and monetising assets. Through the sale of assets, **Heritage** has generated cash of over US2\$bn and since listing in 1999 has grown the market capitalisation from US13\$ million to US850\$ million and paid a dividend totaling US500\$ million.

Heritage has a phenomenal track record of exploration success, best demonstrated in Uganda. **Heritage** was the pioneering company exploring for oil and as operator discovered and carried out pre development of 800 million barrels of risked recoverable oil with an additional 1 billion barrels upside. The exploration success focused the attention of the world’s oil and gas majors on Uganda. The interests were sold in July 2010 for US1.45\$ billion, the then largest oil and gas asset transaction recorded in Sub-Saharan Africa

www.heritageoilplc.com



INA is a medium-sized European oil and gas company. With a 13,854 employees and Group EBITDA of HRK 4,578million, **INA** has a leading role in Croatian oil business and a strong position in the region in the oil and gas exploration and production, oil processing, and oil and oil products distribution activities.

At the end of 2012, **INA** had 267 million boe proven and probable hydrocarbon reserves and hydrocarbon production of 48.6Mboe/day. Its refineries in Rijeka and Sisak have a total throughput capacity of 6.7 Mtpa and have produced a total of 4.1 Mt of refined products in 2012. As of December 31st 2012, Retail services operated 448 petrol stations. Exploration and Production Business Segment is engaged in exploration, development and production of oil and natural gas in Croatia and abroad. Since it was founded it has been involved in oilfield operations in 20 foreign countries, currently in Angola and Egypt.



DOMESTIC ACTIVITIES

In onshore Croatia, **INA** is continuing with successful exploration activities, two new discoveries nearby existing oil fields were made in the second half of year.

Exploration activities in the North Adriatic are carried out through cooperation between **INA**, d.d. and its Italian partners. The Izabela Contract Area has been explored together with EDISON GAS through a joint operating company EDINA . Exploration activities in the North Adriatic and Aiza - Laura Contract Areas are carried out in partnership with ENI through the INAgip joint operating company.

INTERNATIONAL ACTIVITIES

INA has been involved in E&P activities in Angola since 1980, participating in development and production activities on three concessions as a non-operating partner.

In Egypt **INA** has been involved in E&P activities in Egypt since 1989. **INA** is the operator of the SidiRahman and Rizk Development Leases of the East Yidma Concession, while it has non-operator status in four other concessions (Ras Qattara, West Abu Gharadig, North Bahariya and Disouq).

INA Group has been active in Syrian Arab Republic since 1998 based on signed Production Sharing Agreements (PSA). Following the successful exploration and appraisal **INA** has announced six commercial discoveries on Hayan block with significant oil, condensate and gas reserves. The second PSA covers Aphamia block Concession and became effective in June 2004. On 26 February 2012 **INA** announced „force majeure“ and temporarily suspended all it´s business activities in Syria until the „force majeure“ circumstances cease to exist.

INA decided to participate in the Lebanon bid round since MENA is region of strategic interest for **INA** E&P business. Having significant experience in the neighbouring Syria and offshore project development experience in the Adriatic offshore **INA** is willing to contribute to the future Lebanon energy development.



JAPEX, Japan Petroleum Exploration Co., Ltd., has been engaged in exploration and production (E&P) of crude oil and natural gas both in Japan and overseas for more than a half century. Its main operating areas in Japan are Hokkaido, Akita, and Niigata, and it is also quite active in countries around the world, including Canada, the Republic of Indonesia, and the Republic of Iraq.



JAPEX was founded in December 1955 as a special-purpose company under the government initiative, and has continued exploring and producing crude oil and natural gas in Japan while expanding its activities to the overseas fields. In the late 1960's **JAPEX** was incorporated into the Japan Petroleum Development Corporation (JPDC), a government agency, as its E&P operating body. In April 1970 **JAPEX** was separated from JPDC, and established itself as a private-sector company. And since December 2003 **JAPEX** has been listed in the First Section of the Tokyo Stock Exchange.

It is extremely important for **JAPEX** to increase its reserves and build a business structure that ensures long-term stability of supply of crude oil and natural gas, for exploration, development and sale of natural resources are the main pillars of business activities of **JAPEX**. In order to realize our corporate objectives, **JAPEX** has a strong interest in participating in promising projects and discovering new oil and natural gas reserves by being engaged in projects with high exploration potential. In this regard, we are keen to be involved in projects in offshore Lebanon, as it has one of the most prolific hydrocarbon basins with large volumes of "undiscovered" exploration potential.

With **JAPEX** participating in Lebanon's First Offshore Licensing Round, we strongly believe that we can contribute to the development of the nascent petroleum industry in Lebanon by utilizing our unique technologies in E&P and thorough knowledge that we have acquired and accumulated through our long history of E&P activities in many countries around the world.





The Future of Energy, Resources and Materials

JX Nippon Oil & Gas Exploration

JX Nippon Oil & Gas Exploration Corporation (JXNOGEC), which has successfully prequalified in Lebanon for the 1st Licencing Round, is the Oil and Gas E&P company under JX Holdings, Inc.

The **JX Holdings, Inc.** is comprised of three core companies as below.

JX Nippon Oil & Energy Corporation has a dominant position in Japan's domestic Petroleum Refining and Marketing Business. It has a refining capacity of approx. 1.4million barrels of oil per day across eight refineries which give it a %36 market share by volume, sold and distributed via the largest network of sales outlets. In addition it has a diverse portfolio of related businesses including LNG import and regasification, power generation, coal, renewables, lubricants and petrochemicals (No 1 in Asia for paraxylene feedstock).

JX Nippon Mining and Metals Corporation has stakes in the world's leading copper mines, including its own operated mine. It has copper refining facilities with world second capacity, and is leading large scale recycling business to explore "urban mines". It has a No1 global market share in varieties of high quality non-ferrous products, that are used for the electronics equipment.

JX Nippon Oil & Gas Exploration Corporation (JXNOGEC) is the home of the upstream business (exploration and production) with divisions resident in 14 countries worldwide. This includes operated projects in such countries as Vietnam, Malaysia, UK, USA and Australia. Historically JX has tended to focus on projects in Asia but in recent years has become a more truly global player. Upstream has been identified as a major growth focus of JX Holdings, with ambitions to increase net reserves and production rates from current levels. The company's strategy is to grow mainly through exploration, where we see the best opportunities. To support this, a number of material projects are being pursued, including offshore Lebanon.



JXNOGEC's portfolio includes deepwater, HPHT, heavy oil, LNG, fractured basement reservoir, and other technical challenges. JXNOGEC has a global strategy of preferring to operate and has operated exploration and production projects worldwide. However for the purposes of the Lebanon First Licencing Round JX has pre-qualified as a non-operator.

JX HD's companies also have a firm resolve and commitment to deliver top class HS&E performance, together with high standards of CSR behaviours and engagement. The JX Mission Statement is "the JX Group will contribute to the development of a sustainable economy and society through innovation in the areas of energy, resources and materials".





KOGAS CORPORATION

Korea Gas Corporation (KOGAS) was established by the Korean government in 1983 and was listed on Korea Stock Exchange in 1999. **KOGAS** is the only fully-integrated natural gas provider holding monopolistic position in Korea. As a single largest buyer of LNG in the world, **KOGAS** imported 35 million tons of LNG from 10 countries in 2012. Currently, **KOGAS** is actively engaged in 24 conventional and unconventional E&P projects in 17 countries including Cyprus, Canada, Iraq, Myanmar, Mozambique and Australia.



E&P Project:

- Exploration : 5 projects
- Development & Production : 13 Projects
- LNG Plant & Investment : 6 projects

Production Volume:

- 14.4 Million BOE/yr

Domestic Facilities:

- LNG Storage Tank : Total 58 units, 8,320,000 kl
- Main Gas Pipeline Length : 3,558 km

Total Asset Value:

- 32.5 Billion USD (2012)

Sales Value:

- 25.6 Billion USD (2012)

LNG Sales Volume:

- 33.6 Million Tons/yr (2012)

Bright Future of Lebanon

The recent back-to-back discovery of gas fields in the East Mediterranean Sea, Levantine Basin, attests to the fact that the offshore in Lebanon has the potential to become a prolific hydrocarbon system. In order to live up to the expectations of Lebanese government and People, **KOGAS** has the strong willingness to keep its technical and financial capacity in a best position high enough for exploring and developing key prospects in the least amount of time.

Social Responsibilities and Contribution to Lebanon

KOGAS has been selected nine times for the best practice in the customer satisfaction survey of public corporation services since 1999. In a bid to fulfill our corporate responsibilities as a global energy company, we will increase our social contribution programs in Lebanon and fully comply with global standards for environment and safety control to improve the quality of life of the people in Lebanon.



Creating Value Beyond Energy

KNOC, founded in 1979 as a state-owned corporation for the stable supply of oil resources after two oil shocks, is faithfully fulfilling its national mission of stably securing oil resources by operating businesses such as exploration and production, oil stockpile, improvement of oil distribution and oil information service in a situation of ever-present oil risks.

Based on our own technological prowess and know-how accumulated since our establishment, **KNOC** stands out as a global company implementing numerous E&P projects in 24 countries worldwide.

KNOC is also committed to delivering happiness to people by stably securing oil resources and growing into a global player.

By preparing for better tomorrow with creativity and challenging spirit, **KNOC** will continue to play a pivotal role for national economic growth.

Challenge and Success

Thanks to the efficient enhancement of oil field operations and active acquisition of promising oil companies and assets abroad since 2008, our oil reserves and production volume have remarkably increased.

Nonetheless, the true challenges of **KNOC** have just begun. We endeavor to be reborn as a true global player by enhancing global competitiveness through consolidating exploration capabilities, securing core technological prowess, and preparing advanced business management systems for internally stable growth in line with quantitative growth.

Explore Tomorrow

With an incredible drive to become a respected world-class national oil company, **KNOC** is pursuing to find promising oil and gas development projects in the world, particularly, with the start of the Lebanon First Offshore License Round, **KNOC** is interested in opportunities in offshore Lebanon, which is considered as a new frontier hydrocarbon province with high potential.

KNOC is successfully pre-qualified to participate in the Lebanon First Offshore License Round and now in preparation to take part in Lebanon opportunities in order to produce good results not only for Korea's energy security, but also for the Republic of Lebanon and its people's wealth and prosperity.

KNOC will ceaselessly pursue the value of technological competitiveness for energy.





Kuwait Foreign Petroleum Exploration Company K.S.C. (KUFPEC) is a wholly-owned subsidiary of Kuwait Petroleum Corporation (KPC), the national oil company of the State of Kuwait.

KUFPEC was formed in 1981 as the international upstream subsidiary of KPC for the purpose of exploration, development and production of crude oil and natural gas outside Kuwait.

KUFPEC currently participates in 50 projects in 13 countries and has, in addition to its headquarter offices in Kuwait City, 5 Area Offices (in Egypt, Tunisia, Pakistan, Indonesia and Australia). Overall, **KUFPEC** has a fully integrated skilled international technical and commercial workforce of close to 230 employees where its technical expat staff have an average of 20 years international work experience.

KUFPEC presently produces close to 80,000 boe/day with a target to reach 200,000 boe/day by 2020.



AO LUKOIL is an international energy company with operations in more than 35 countries all over the world with the total revenue of about 139\$ billion. Its main business activities are exploration and development of oil and gas fields, production and marketing of petroleum products, petrochemicals, thermal and electric energy. LUKOIL Overseas Lebanon B.V. is a %100 owned subsidiary of **LUKOIL** Overseas Holding Ltd. - an integral part of **AO LUKOIL**, the company, which carries out exploration, acquisition, integration and subsequent development of oil and gas fields outside the Russian Federation.

AO LUKOIL holds leading positions among the world's private oil and gas companies in terms of its proven hydrocarbon reserves and production level. As of late 2011, **LUKOIL's** proven reserves constitute 17.3 billion barrels of oil equivalent, production of marketable hydrocarbons was 2.1 million barrels of oil equivalent per day. The development strategy of **AO LUKOIL** provides for stable growth of hydrocarbon production at the level of not less than %3.5 per year until 2021.



LUKOIL's international business strategy prioritizes projects, associated with deep-sea production of hydrocarbons, as well as projects, ensured product diversification of **LUKOIL's** business. **AO LUKOIL** carries out oil and gas exploration and production projects in 13 countries of Eastern Europe, Middle East, North Africa, West Africa, South-East Asia, South America and Caspian region. The company's advanced technologies allowed to drill a number of deep-water wells in West Africa, and discover several hydrocarbon fields. **AO LUKOIL** operates the West Qurna2- mega project in Iraq - one of the largest undeveloped fields in the world with recoverable reserves of about 14 billion barrels. One of the **LUKOIL's** largest gas projects is Kandym-Khauzak-Shady in Uzbekistan with estimated volume of production approximately 4 billion cubic meters of gas per year.

Participation in development of hydrocarbon potential in the Middle East and Mediterranean region is considered by **LUKOIL** as one of the strategic areas of its activities and we are looking with great interest into the business development opportunities on the Lebanon continental shelf with a strong belief that **LUKOIL** can provide a notable contribution to the development of the Lebanon oil and gas industry.





Marathon Oil Corporation (NYSE: MRO) is an international, independent exploration and production company. Based in Houston, Texas, the Company had net proved reserves at the end of 2012 of 2 billion barrels of oil equivalent in North America, Europe and Africa.

Large, stable base assets are the foundation for **Marathon Oil's** current production and generate substantial earnings and operating cash flow for investing in the Company's growth and exploration portfolios and paying a competitive dividend. The Company emphasizes high operational availability, disciplined investment and a competitive cost structure to maximize recovery and income from its base assets.



Major areas of production are in Europe, offshore Norway and the United Kingdom; in Africa, Equatorial Guinea and Libya; and in Canada, the Athabasca Oil Sands Project. In the U.S., the Company's base assets consist of conventional and deepwater operations in the Gulf of Mexico and onshore Wyoming, Oklahoma, Texas, Colorado and Louisiana.

Growth assets are where **Marathon Oil** expects to make significant investments to increase oil and gas production and reserves. The Company is focused on U.S. liquid hydrocarbon growth by developing unconventional liquids-rich plays, including the Eagle Ford and Bakken shales, and the Oklahoma Resource Basins. In addition to U.S. shale plays, growth assets include deepwater discoveries and developments offshore Angola, certain Gulf of Mexico blocks and the Kurdistan Region of Iraq.

Marathon Oil invests selectively in exploration programs that offer significant value potential. Areas of exploration include the Gulf of Mexico, Equatorial Guinea, Ethiopia, Gabon, Kenya, the Kurdistan Region of Iraq and Norway.

Marathon Oil creates value for its shareholders and provides quality products and services for its customers. In doing so, the Company acts responsibly toward its employees and contractors, the communities in which it operates and its business partners. These are the core values that guide the Company's approach to business:

- **Health and Safety:** **Marathon Oil** conducts its business with high regard for the health and safety of its employees, contractors and neighboring communities.
- **Environmental Stewardship:** The Company is committed to minimizing environmental impacts by reducing wastes, emissions and other releases.
- **Honesty and Integrity:** The Company upholds high standards of business ethics and integrity, enforces strict principles of corporate governance and supports transparency in all of its operations.
- **Corporate Citizenship:** **Marathon Oil** lives by its principles of corporate social responsibility and making a difference through philanthropic, social development and volunteer programs.
- **High Performance:** The Company creates sustainable value through a high performance team culture and provides a collaborative, supportive work environment where employees are encouraged to reach their full professional potential.



Mubadala Petroleum is a young and ambitious international, upstream oil and gas exploration and production company. We were established as a wholly-owned subsidiary of Mubadala Development Company in 2012, incorporating and building on the success of Mubadala's existing investments in the sector.

The transformation to a subsidiary business reflects the scale, operational maturity and diversity of the portfolio we manage, which includes assets and operations at all stages of the upstream value chain located across the eastern hemisphere. We continue to grow our capabilities, combining significant operational experience with substantial technical expertise.

These qualities build on our strong commercial acumen and the partnership-driven approach that have been central to our business from the outset.

We are participants in a number of major projects including the world class Dolphin Gas Project, which is central to meeting the energy needs of the UAE; enhanced oil recovery projects in Oman and Bahrain; operated developments in Thailand and Indonesia; and high impact exploration in Kazakhstan, Tanzania and Southeast Asia.



Jasmine field facilities, operated by Mubadala Petroleum in the Gulf of Thailand

In Southeast Asia, the company acts as operator across an extensive range of assets located in Thailand, Indonesia, Malaysia and Vietnam. In the Gulf of Thailand, we have developed a strong track record of safe, efficient and cost-effective production operations, and are bringing forward several new developments, including the Manora field. In Indonesia, we are in the advanced stages of development of the Ruby gas field, located offshore in the Makassar Strait, which will produce gas for the domestic market over the life of the field.

We have utilized the operating experience from Southeast Asia across our entire business and now function as a fully integrated organization deploying our resources where they are required and can add most value.

Lasting partnerships, built with host governments, national and international oil and gas companies, and the communities in which we operate, are central to our success. We have become an increasingly active partner in all of our projects, including those where we are not the operator, and by taking a long-term view, we maximize the value of our investments to the benefit of our business, our shareholder, our business partners and our stakeholders.

mubadalapetroleum.com



Mitsui E&P Middle East B.V. (MEPME) is a subsidiary of **Mitsui & Co., Ltd. (Mitsui)** and focuses on E&P business in the Middle East and North African regions.

Mitsui is one of the most diversified and comprehensive trading, investment and service enterprises in the world, with 151 offices in 66 countries as of April, 2012.



Energy business, including oil and gas upstream, is the one of **Mitsui** core business fields, and it ranges from product sales, worldwide logistics and financing, through to the development of major international infrastructure and other projects in the following fields: iron & steel products, mineral & metal resources, infrastructure projects, motor vehicles & construction machinery, marine & aerospace, chemicals, energy, food resources, food products & services, consumer services, it, financial & new business and transportation logistics.

Integration among business units gives **Mitsui** a competitive edge, and the company has played important roles and contributed to LNG projects and oil and gas development around the world. **Mitsui** is actively taking on challenges for global business innovation around the world.

For more information, visit <http://www.mitsui.com/jp/en/>



MOL Group is a leading integrated Central & Eastern Europe based oil and gas company with operations in 40 countries across Europe, the Middle East, North Africa and the CIS. Our international team consists of close to 30,000 people worldwide. **MOL Group** presently conducts exploration activities in 11 and production in 7 countries. **MOL Group's** SPE 2P reserves reached 647 MMboe as of 31 December 2012 while hydrocarbon production amounted to 115 thousand barrels of oil equivalent per day in 2012. The Group also operates five refineries and two petrochemicals units under integrated supply chain management, in Hungary, Slovakia, Croatia and Italy. It also owns a network of over 1,700 filling stations in 11 countries across Central & South Eastern Europe and operates a 5,560 km long high pressure gas pipeline system in Hungary.

MOL Group has more than seven decades of oil and gas industry experience in the Central and East European(CCE) region combined with a proven international track record of over 20 years. Besides our traditional CEE region, in recent years the company recorded several discoveries and placed the focus on flagship assets in the Kurdistan Region of Iraq as well as Russia, Kazakhstan and Pakistan.

MOL Group is following an upstream lead growth strategy and is actively seeking new exploration and production opportunities in several regions. As part of our strategy, we aim to also increase our offshore portfolio. **MOL Group** strongly intends to achieve exploration success in Lebanon as well, while striving for excellence in its social and environmental performance.





GPB Global Resources (%100 owned by Gazprombank) is an international Group of companies, engaged in petroleum and mineral resource projects in various parts of the globe, including Africa, South America, and the Middle East.

Over the last 5 years our team has successfully engaged in overseas oil & gas and mining projects providing advisory services to Gazprombank, Gazprom and other Russian energy majors. The company's team played a key role in the vast expansion of Gazprom Group's global upstream portfolio.

Companies of the Group specialize in the following activities:

- Acquisition and management of oil and gas projects (exploration and development stages);
- Acquisition and management of mineral resource projects (exploration and development of coal, gold, diamonds, and other precious gems);
- Financial services for governments and state-owned companies developing natural resources;
- Project financing for infrastructure development in emerging markets;
- Consulting services to oil & gas companies and the mining industry.

Oil Project in Venezuela. Corporación Venezolana de Petróleo S. A. (PDVSA Group) and Gazprombank Latin America Ventures B.V. (GPB Global Resources Group) are jointly developing an oil project at Lagunillas Tierra and Bachaquero Tierra fields in Venezuela via JV Petrozamora S.A. The viscous oil fields are located in the state of Zulia next to the lake of Maracaibo in the west of the country. The total area of the fields covers 698 km².

The Joint Venture's shareholding structure: Corporación Venezolana de Petróleo S. A. - %60, Gazprombank Latin America Ventures B.V. - %40. The production contract is concluded for 25 years. The partners apply sophisticated modern technology to boost oil production. Remaining recoverable reserves amount to 1,42 MMbbl, current oil production - 63,000 bopd.

GPB Global Resources is a ready platform for successful and mutually profitable international resource projects.

NOVATEK is Russia's largest independent natural gas producer and the second-largest natural gas producer in world. The Company is ranked 4th globally among publicly traded companies in terms of proven natural gas reserves under the Security and Exchange Commission (SEC) reserves methodology and is also one of the lowest-cost producers in the world.

NOVATEK plays a significant role in Russia's energy sector: in 2012, the Company accounted for approximately 9% of total Russian natural gas production, 34% of natural gas produced by Russian independent producers and 16% of total natural gas deliveries to the domestic market through the United Gas Supply System (UGSS). The Company also accounted for about 17% of total Russian gas condensate production in 2012.

NOVATEK's main businesses are exploration and production, processing, transportation and marketing of natural gas and liquid hydrocarbons. The Company's primary production and processing assets are located in the Yamal-Nenets Autonomous Region (YNAO), one of the largest gas producing regions in the world. Future development of Company business is associated with further work on expansion of a vertically integrated value chain: from exploration and production of hydrocarbons to the processing of liquid hydrocarbons and sale of products to end-users.

Main strategic priorities of NOVATEK are:

- Growth of the resources base and efficient reserve management;
- Maintaining sustainable rates of growth of hydrocarbon production;
- Maintaining a low-cost structure;
- Expansion of processing capacity to maximize vertical integration and develop the hydrocarbon value chain; and
- Optimization and expansion of existing marketing channels, and creation of new marketing channels.

The Company has a number of competitive advantages to implement its strategy successfully. These competitive advantages include: size and structure of the resource base; existing infrastructure close to core producing fields; a well-developed customer base for natural gas sales; own facilities for gas processing and exports; and developed marketing channels for liquefied petroleum gases (LPG) and stable gas condensate. NOVATEK's competitiveness is also supported by its high level of operating flexibility and consistent use of the latest technologies in production and business management.

Our commitment to social responsibility and to observing the latest environmental, health and safety standards are integral parts of NOVATEK's development strategy.





Founded in 1956, **OMV Aktiengesellschaft (AG)** has been actively expanding internationally since 1985. Today, **OMV AG** consists of three main divisions, Exploration & Production, Gas & Power, and Refining & Marketing. Together, the divisions of **OMV AG** represents Austria's largest industrial company with assets amounting to EUR 30.52 billion (USD 39.21 billion) as of Q2012 4.

OMV has an annual refining capacity of 22 million tonnes and as of the end of 2012 has approximately 4,400 filling stations in 13 countries. In Austria, **OMV** operates a 2000 km long gas pipeline network with a marketed capacity of 103 billion cubic metres. **OMV's** trading hub, the Central European Gas Hub, is amongst the most important hubs in continental Europe.

A truly international company with acreage from the Barents Sea in Norway, to New Zealand's Taranaki Basin, **OMV E&P** is active in 17 countries, with production of both oil and gas from 10 countries. In 2011, the oil and gas production for **OMV AG** was 288,000 boe/d, this daily production rate increased in 2012 to approximately 303,000 boe/d. In total, the annual production for 2012 was 111.1 million boe.

OMV participated in four (4) offshore exploration wells in 2012. The deep-water Domino1-exploration well in the Black Sea was the company's biggest discovery in the entire year, with gas volumes estimated to be in the range of 1.5 to 3.0 trillion cubic feet.



Company Values

OMV Group's corporate values "Professionals, Pioneers, Partners" are systematically embedded into our on-going activities. We are committed to fully integrating social and environmental awareness into our decision-making processes and management systems. **OMV** was amongst the first Austrian companies to sign up to the UN Global Compact with its 10 principles regarding human rights, labour standards, the environment and anti-corruption.

Profitable Growth Strategy

In September 2011, the **OMV** Executive Board presented the strategy "Profitable Growth". The Profitable Growth strategy highlights **OMV's** ambition and commitment to become a strong integrated international oil and gas company with improved profitability and strong growth in the upstream sector. This strategy will be achieved through the E&P business segment assuming a significant role within the group. E&P is the growth driver for the **OMV** portfolio, with increased investment directed towards the exploration and production of oil and gas. Lebanon sits within the E&P's exploration focus.





ONGC Videsh Limited (OVL) is a wholly owned subsidiary of Oil and Natural Gas Corporation Limited (ONGC). The primary business of the company is to prospect for oil and gas acreages abroad for exploration, production, transportation and sale of oil and gas. The authorized and paid-up share capital of **OVL** as on September 2012, 30 stood at over 50 Billion Indian National Rupees (USD equivalent 925 Million).



OVL started aggressive overseas acquisitions and exploration in late 1990s with first Production Sharing Contract (PSC) signed In 1988 for the Block 06.1 in Vietnam. The first Oil production of **OVL** was from Greater Nile Oil Project (GNOP), Sudan in March 2003 and Gas from Block 06.1, Vietnam in January 2003. **OVL** acquired Sakhalin1-, Russia in July 2001 and oil production started from October, 2005. Subsequently, **OVL** acquired assets in Sudan, Syria, Colombia, Brazil, Venezuela, Kazakhstan, and very recently, in Azerbaijan. As on date, **OVL** participates in 32 projects in 16 countries.

Currently, **OVL** has oil and gas production from 11 projects in 9 countries, namely, Russia (Sakhalin1- and Imperial Energy), Syria (Al-Furat Petroleum Co.), Vietnam (Block 06.1), Colombia (MECL), Sudan (Greater Nile Petroleum Operating Company), South Sudan (Greater Pioneer Operating Company and Sudd Petroleum Operating Company), Venezuela (San Cristobal), Brazil (BC10-) and Azerbaijan (ACG). There are 5 projects where hydrocarbons have been discovered and are at various stages of development. A total of 14 projects are in exploration stage, while two are pipeline projects.

OVL has built up a sound Oil and Gas Reserve base. As on 1st April 2012, the remaining 1P and 2P reserves are 193.38 MMTOE (Oil 98.30 MMT, Gas 95.08 BCM) and 392.70 MMTOE (Oil 250.45 MMT, Gas 142.25 BCM) respectively. From a meagre oil and gas production of 0.253 MMTOE in 03-2002, **OVL** has registered a production of 7.26 MMTOE in Financial year 13-2012.

While **OVL** participates and operates in varied environments, both political and geographical, it is committed to the highest standards of Occupational Health, Safety and Environment protection and compliance to all applicable local laws & regulations. Understanding well its corporate social responsibility, **OVL** makes valuable contribution to the communities and economics in which it operates, by investing in education, training and improving employment opportunities for nationals, providing medical, sports, agricultural facilities to the local community etc. besides payment of tax revenue to local governments.

OVL has developed strong relationships with National/ International Oil Companies of various countries by working with their team and management at project level. Some of the leading alliance partners of **OVL** are ExxonMobil, Shell, Total, Repsol, Statoil, Petrobras, Rosneft, Petro Vietnam, CNPC, Sinopec, PDVSA, TPOC, Petronas and Ecopetrol. **OVL** would be keen to partner Government of Lebanon in its quest for energy in the Offshore Levantine Basin in the EEZ of Lebanon and utilize its skills and experience for the benefit of all stakeholders.



Petroceltic International plc is a publicly quoted oil and gas exploration and production company. The Company is headquartered in Dublin with offices in Edinburgh, London, Algiers, Varna, Cairo and Rome. **Petroceltic's** shares are listed on the Alternative Investment Market (AIM) of the London Stock Exchange and on the Enterprise Securities Market (ESM) of the Irish Stock Exchange.

Our strategy is to discover and acquire assets with material hydrocarbon resource potential and to exploit these assets to deliver superior shareholder value. We focus on developing material asset positions in attractive fiscal regimes with strong partners that can add complementary skills as well as financial strength. Our geographical focus is Middle East-North Africa (MENA), the Mediterranean basin and the Black Sea. The Company is currently active with operations in Algeria, Bulgaria, Egypt, Italy, Kurdistan Region of Iraq and Romania.





PTTEP is a national petroleum exploration and production company dedicating to provide a sustainable petroleum supply to Thailand and the countries we operate as well to bring in foreign exchange earnings to our country.

A top-ten publicly-listed company in the Stock Exchange of Thailand, **PTTEP** operates more than 40 projects around the world and has a workforce of 4,000.



PTTEP conducts its business as a responsible corporate member of the society to observe the laws of Thailand and the countries we operate. We strongly support the fundamental human rights in line with the legitimate role of business and give proper regard to health, safety, security and environment consistent with our commitment to contribute to sustainable development of the society where we operate. We also involve through communities on educational and healthcare programs and the nature of the local society. **PTTEP** adhere to our codes of business conduct which encompass monetary transparency and is reflected in our participation to the disclosure of actual financial information to multi-stakeholders as guided by the applicable laws. We also strictly comply to the contractual obligations of the projects in the host countries we operate.

PTTEP is committed to doing its business with correctness and transparency while treating all stakeholders fairly and equally under good corporate governance and the code of business conduct and conforming to the Human Rights Principles of the United Nations without employing illegal labor. Employee education about good corporate governance and the code is regularly promoted.

Since 16 June, 2011, **PTTEP** has become a participant of the UN Global compact, to strengthen our commitment to its ten principles related to 4 core areas: human rights, labour, environment, and anti-corruption, which is in compliance with our good Corporate Governance and Code of Business Conduct.

PTTEP have been actively studying the petroleum exploration in the eastern part of offshore Mediterranean for some considerable time and have great confidence in the hydrocarbon generation and accumulation. We consider that the hydrocarbon discoveries in this area are increasing the opportunities of petroleum potential in the offshore Lebanon as well.





ROSNEFT

Rosneft is the leader of Russia's petroleum industry, and ranks among the world's top publicly traded oil and gas companies. The Company is primarily engaged in exploration and production of hydrocarbons, refining and marketing of outputs. **Rosneft** has been included in the Russian Government's List of Strategic Enterprises and Organizations. Russian Federation holds %69.50 in the Company.

Rosneft is widely engaged in exploration and production in Russian Federation and participating in several upstream projects worldwide in cooperation with its strategic partners, major international oil and gas companies and other investors. **Rosneft's** refinery capacities are conveniently located throughout Russia and Ukraine, from the Black Sea coast to the Far East and also include %50 share of Ruhr Oel GmbH which holds stakes in four refineries in Germany.

Rosneft is focused on expanding its resource base through intensive exploration and new acquisitions in order to secure sustainable production growth in the long term. Reserve replacement has averaged %150 in the last years, not including acquisitions, which is among the highest indicators in the sector. **Rosneft's** upstream projects are located in Russia's most promising oil & gas regions, such as Western and Eastern Siberia, the shelf of Russia's Arctic Ocean, Okhotsk, Black, Caspian and Azov seas and in other regions of the world (onshore and offshore – US Gulf of Mexico, Canada, Brazil, Venezuela, Vietnam, Algeria, UAE).



Rosneft has been successfully implementing its strategy of steady production growth, supported by constant monitoring and adoption of innovative technology. In 2012, **Rosneft** average daily production exceeded 2.8 million boe (oil – 2.5 million boe, gas – over 0.3 million boe, before consolidation of TNK-BP production). In 2012 the average daily production of TNK-BP, the major subsidiary of **Rosneft** acquired in 2013 exceeded 2 million boe (oil – 1.8 million boe, gas – 0.3 million boe). The Company consistently maintains high operating efficiency, and has the lowest upstream production and operating expenses among its national and major international peers.

On environmental issues, **Rosneft** is guided by the requirements of Russian legislation and the provisions of international law. Cutting the Company's harmful atmospheric emissions is a priority. Special attention is paid to preventative steps aimed at minimizing any negative impact on the environment. For instance, **Rosneft** is implementing the Target Environment Program for 2014-2009, which aims to upgrade the Company's anti-pollution facilities and equipment.



Santos is a leading oil and gas explorer and producer, supplying Australian and Asian customers.

With its origins in the Cooper Basin, **Santos** is one of Australia's largest producers of gas to the domestic market and has the largest exploration and production acreage position in Australia of any company.

Santos has developed major oil and gas liquids businesses in Australia, and operates in all mainland states and the Northern Territory as well as in Federal waters offshore.

Santos also has an exploration-led Asian portfolio, with a focus on three core countries: Indonesia, Vietnam and Papua New Guinea.



From this base, **Santos** is pursuing a transformational LNG strategy with interests in four LNG projects, including GLNG and PNG LNG.

Our substantial pipeline of projects ensures **Santos** is well positioned to achieve our production goal of 80 to 90 million barrels of oil equivalent by 2020.

With over 3,000 employees across Australia and Asia, **Santos'** foundations are based on safe, sustainable operations and working in partnership with host communities, governments, business partners and shareholders.

Successful exploration is fundamental to **Santos'** growth strategy as it contributes value-adding reserve additions and creates options for future growth.

Following pre-qualification, **Santos** looks forward to participating in the Lebanon Offshore Licensing Round and working with the Government and People of Lebanon to realise Lebanon's petroleum potential.



SOCO is an international oil and gas exploration and production company, headquartered in London. The Company's shares have been listed on the London Stock Exchange since 1997 and **SOCO** is presently a constituent of the FTSE 250 Index. The Company is led by a proven management team and has a market cap of approximately US\$1.5 billion.

The Company has designated core areas in South East Asia, Africa and the Middle East. The essence of our strategy is to identify underexploited opportunities in hydrocarbon prone regions. We employ a strategy for building shareholder value through a portfolio of oil and gas assets by focussing on:

- Recognising opportunity by cultivating relationships and having early access into regions, projects or situations where there is potential to create significant upside through the Company's participation;
- Capturing potential by adding the Company's managerial, technical and commercial expertise to progress activities through the formative stages or through periods of difficulty;
- Realising value by locking in returns, regardless of the phase of the project life cycle, once the Company's capability to add value begins to diminish.

SOCO currently has interests in Vietnam, the Republic of Congo (Brazzaville), the Democratic Republic of Congo (Kinshasa) and Angola, with production operations in Vietnam.

The Company's production assets are the Block 1-16 and Block 2-9 projects in Vietnam. These are located offshore in the oil rich Cuu Long Basin, which is a shallow water, near shore area defined by several high profile producing oil fields. In Congo (Brazzaville), **SOCO** has exploration interests in the Marine XI Block, located offshore in the shallow waters of the Lower Congo Basin, and the Nanga II A Block located onshore, adjacent to the coast. In the Democratic Republic of Congo (Kinshasa) ("DRC") **SOCO** has onshore exploration interests in the Nganzi Block located in the Bas Congo of western DRC, and Block V, located in North Kivu in eastern DRC adjacent to the border with Uganda.

SOCO is committed to operating responsibly and be a positive presence wherever it has operations. It has an exemplary track record of environmental performance, community engagement and building sustainable social projects. It has achieved a continual Lost Time Injury Frequency of nil.

During 2012, the Company achieved record revenues of US\$621.6 million; after tax profits from continuing operations of US\$207.0 million; and operating cash flow of US\$334.8 million. The Company's cash, cash equivalents and liquid investments at 31 December 2012 were US\$258.5 million.





Suncor's Terra Nova Floating Production, Storage and Offloading (FPSO) vessel, offshore Canada's East Coast.

As Canada's leading integrated energy company, Suncor's vision is to be a trusted steward of valuable natural resources. Suncor's operations include oil sands development and upgrading, conventional and offshore oil and gas production, petroleum refining, and product marketing under the Petro-Canada brand.

Suncor's Exploration & Production (E&P) business is responsible for upstream oil and gas activities that will build a strong, sustainable portfolio of assets to support company growth. Our assets are located in Western Canada, offshore Canada's East Coast, the North Sea offshore the United Kingdom & Norway, Libya and Syria. With a strong reputation as a capable operator and multi-national partner, the E&P business offers a world of opportunity for Suncor's future.

Suncor's disciplined growth strategy is to continue to build on the foundation of an unparalleled resource base. Suncor continues to pursue a triple bottom line vision of sustainable development, believing that energy development should occur in a way that provides economic prosperity, promotes social well-being and preserves a healthy environment.





TPAO, one of the pioneer actors of the economy, was founded in 1954 with the responsibility of being involved in hydrocarbon exploration, drilling, production, refinery and marketing activities. In its 59 years history, it has broken new ground in oil sector. Turkish Petroleum that brought 17 major institutions like PETKİM, TÜPRAŞ, PETROL OFİSİ to our country, is still conducting domestic and international activities by involving in important projects and consortia.

Since its foundation, **TPAO** has made efforts in all branches of petroleum industry and realized significant and strategic investments successfully. In addition to vast onshore and shallow water operating experience in Turkey, **TPAO** has operating or non-operating interests in various projects in Azerbaijan, Kazakhstan, Libya and Iraq.

In 2004, **TPAO** has set its vision and mission for meeting Turkey's continuously increasing oil and natural gas demand through domestic and international exploration and production means and has made a boom in its domestic investments by setting its new exploration strategy in the recent years by extending its activities in unexplored basins of Turkey and especially offshore.

TPAO desires to participate in Lebanon's First Offshore Licensing Round and looks for a strong partnership in Lebanon.



GEO-PHYSICAL COMPANIES

Petroleum Geo-Services (PGS)

Spectrum

ION

Norway

Great Britain

USA





Petroleum Geo-Services (PGS) is a leading, worldwide geophysical company providing an extensive range of seismic services and products for the petroleum industry including seismic data acquisition, processing, reservoir monitoring and analysis, interpretation and electromagnetic studies.

With its headquarters in Oslo, Norway, the company has over 34 offices worldwide in 25 different countries with larger regional offices in London, Houston and Singapore. The company is listed on the Oslo stock exchange (OSE: PGS).

PGS' MultiClient group possesses the world's most extensive 3D MultiClient data library (>425,000 sq.km) and more than 290,000km of MC2D data and is focused on providing its customers with the right seismic data, in the right place at the right time. This leading position as a MultiClient data supplier allows **PGS** to provide high quality data, quickly, effectively and economically to assist in de-risking exploration globally.



PGS has been involved in Lebanon since it acquired its first MC3D survey in the central part of the Levantine Basin in 2006. This investment was made on **PGS'** strong belief that offshore Lebanon is a highly prospective area. A second survey followed in 2007, with a MC3D dataset to cover the Latakia ridge and deformation folds in north Lebanon.

Through their unique relationship and close co-operation with the Ministry of Energy and Water of the Republic of Lebanon, **PGS'** investment has continued, in line with increased industry understanding of the Levantine Basin, discoveries in the vicinity and increased interest in offshore Lebanon.

In 2009 **PGS** acquired a 5,000 line km MC2D GeoStreamer® program, investigating leads and obtaining a better overview of offshore Lebanon. In 2011, **PGS** increased their regional knowledge yet further with a 3,814 line km MC2D GeoStreamer® survey which used acquisition parameters that resulted in deeper and clearer seismic data offshore Lebanon than ever before. These included strike and dip lines on potential closures seen previously. In the following years **PGS** acquired 1,395 sq.km MC3D in 3900 ,2011 sq.km in 2012 and most recently 2,500 sq.km in 2013 creating a MegaSurvey of almost 10,000 sq.km of continuous 3D data offshore Lebanon.

PGS' use of leading acquisition and Data Processing technology, combined with the specialist knowledge of their reservoir group, ensures that whether you are looking for a premium quality 2D broadband overview or industry leading 3D datasets that cover the Levantine Basin or Levant Margin they have the data and expertise to assist your exploration project in offshore Lebanon.



Spectrum conducted the first Multi Client 2D seismic survey in the deep waters of Lebanon's Exclusive Economic Zone (EEZ) in 2000. This EMED00- survey is the definitive Multi Client seismic dataset of the eastern Mediterranean region. In 2002, **Spectrum** acquired the Leb02- survey in the near shore Territorial waters offshore Lebanon. Both of these 2D Multi Client surveys were reprocessed in 2012 by **Spectrum** using contemporary seismic data processing techniques. The results from the reprocessing are excellent and have set the standard for 2D seismic data quality in the eastern Mediterranean.

The results from the reprocessing have been used to generate a unique set of reports describing various aspects of the hydrocarbon exploration potential of the region. **Spectrum** have cooperated with a number of technical experts from the region to compile reports including a Levantine Basin Modelling study, a report describing the Petroleum Geology Offshore Lebanon and also an extensive prospectivity report based on a detailed interpretation of the EMED00- and Leb02- surveys.

In 2012, **Spectrum** acquired a 3,000 sq km 3D Multi Client seismic survey (Leb MC3D12) in the south west corner of Lebanon's EEZ and close to the border with Cyprus. This survey was positioned following the interpretation of the 2D seismic data.



The MC3D survey was located due to the close proximity of the recent world class gas discoveries in the southern Levant basin less than 70 kms to the south. **Spectrum's** Leb MC3D12 survey is on the same geological trend as the sands that provide the reservoir for the south Levant discoveries. The 3D seismic data shows that these sands (the Tamar sands) are thicker in the south west EEZ of Lebanon and with larger trapping structures. This is very positive for the potential to discover hydrocarbons offshore Lebanon. Our basin modelling study suggests that as a result of the depth of burial of the probable source rock, there is a possibility to discover oil as well as gas in the deepest part of the basin close to the Cyprus border.

Spectrum were so pleased with the results of the Leb MC3D12 survey, that, under invitation from the Ministry of Energy and Water, a second MC3D survey was commenced in April 2013. The **Spectrum** Leb MC3D13 survey is located immediately to the north of the 2012 survey. Acquisition is expected to end in June with the fast track results available in July. This gives our clients sufficient time to evaluate the results before they submit their 1st round bid applications by November 2013.



→ Charged to innovate. Driven to solve.™



ION is a leading provider of geophysical technology, services, and solutions for the global oil & gas industry. ION's offerings are designed to allow E&P companies to obtain higher resolution images of the subsurface to reduce the risk of exploration and reservoir development, and to enable seismic contractors to acquire geophysical data safely and efficiently. www.iongeo.com.

ION sees great potential in the frontier areas offshore Lebanon and will bring valuable additional insights to the geology with unrivaled subsalt imaging technology.

www.iongeo.com



Expert problem solvers, proven technologies and services

Survey Design Software and Services

- Concept Systems' industry-leading survey design and in-field acquisition optimization services
- MESA® survey design and 3D modeling software



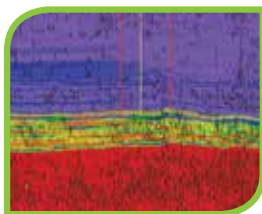
Marine and Land Acquisition Systems

- Seabed: Calypso™, next generation VSO seabed system, with Gator® II command and control
- Towed streamer: Orca® command and control, DigiSTREAMER™ data acquisition, DigiFIN and DigiBIRD streamer positioning, and DigiSHOT source control systems
- Sensor: Precision geophones, including the industry-leading SM-24, and ancillary equipment
- Land: Additional acquisition technologies available through our partner, INOVA Geophysical



Data Processing and Reservoir Services

- Advanced marine and land data processing technologies and techniques through GX Technology, the leader in advanced imaging
- Broad range of reservoir services, including interpretation, VSP Processing, and reservoir characterization



Proprietary and Multi-client Programs

- ION's GeoVentures® group offers end-to-end program management, from feasibility surveys, survey design and planning, to data acquisition, processing, and interpretation
- BasinSPAN™ 2D multi-client data library and ResSCAN™ 3D seismic data programs



iongeo.com



A: Marfaa 200, Third Floor, George Akouri Street, Down Town, Beirut, Lebanon
W: www.lpa.gov.lb - www.lebanon-exploration.com