

Investor Presentation

October 2017

Delek Drilling – Energizing The Eastern Med

Disclaimer



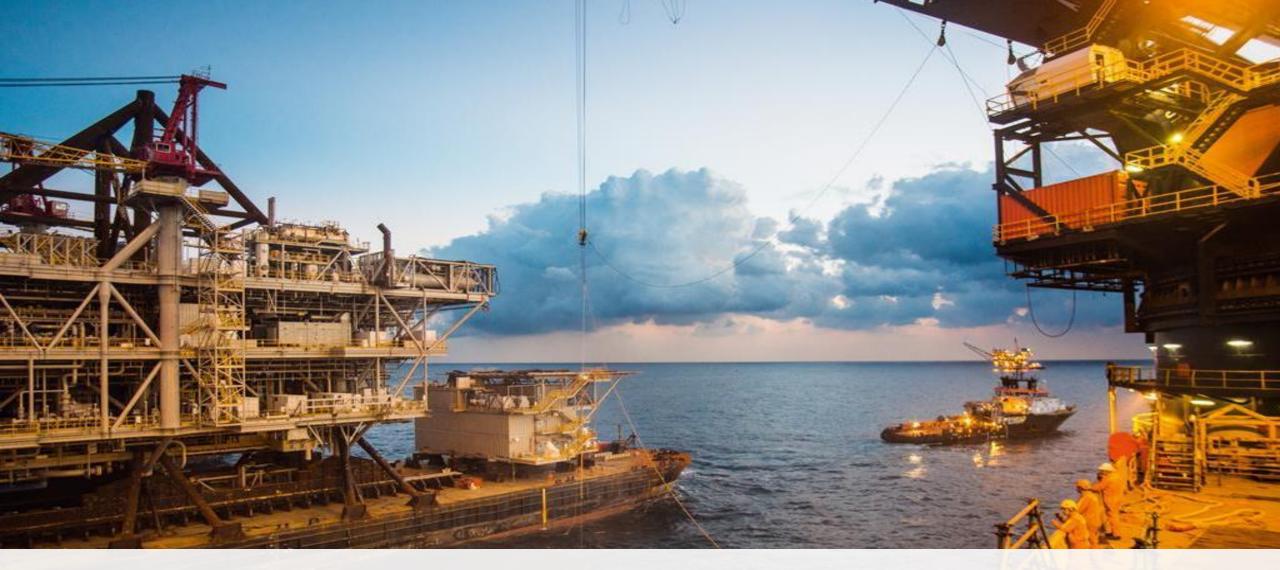
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Leviathan Development Status Update



Leviathan – A Regional Energy Game Changer

Ownership

Delek Drilling 45.3%, Ratio 15%, Noble Energy (operator) 39.7%

2P+2C Resources* 21.4 tcf, 38.4 mmbbl condensate

Estimated First Gas 4Q 2019

Production Capacity (to be built in 2 stages) 1.2 bcf/d (~12 bcm/y) – for Domestic, Jordan and PA 0.9 bcf/d (~9 bcm/y) – Shell-ELNG\Turkey

Estimated Capex Development (100%) \$3.75 Billion – 1.2 bcf/d \$1.5-2 Billion – Additional 0.9 bcf/d

Additional Prospective Resources (P50) 560 mmbbl oil (liquids) 4.5 tcf Gas

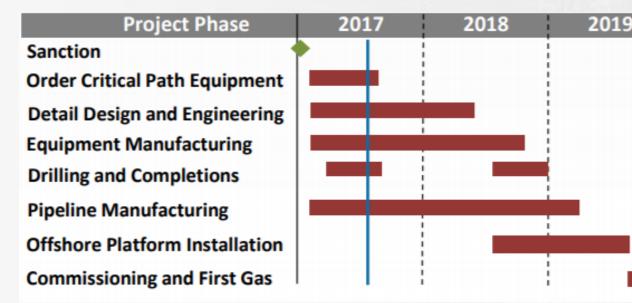


*Resources estimate as published in Septemner 2017



Project Development on Time on Budget

- □ Phase I development progressing, 23% complete
- Fabrication has started on the platform topsides, jacket, and the subsea equipment
- □ All building permits received or submitted
- More than 500 people currently working on the Project. 1500 people by the end of 2017
- **Drilled upper section of Lev-7; Lev-5 drilled to depth**











Source: Leviathan operator (NBL)

Leviathan Drilling Campaign



□ Leviathan – 5 and Leviathan – 7 open hole were drilled in 2017 by the Atwood Advantage drill-ship. The Leviathan partners decided to complete the drilling and completion campaign with the Ensco DS- 7

Scope of work

- □ Drill Leviathan 7 to TD
- Drill Leviathan 3 to TD
- □ Completion of Leviathan 3,4,5,7

Ensco DS-7 Highlights

- **Expected to arrive in 1Q 2018**
- □ Significant drilling cost reduction
- **u** High technical capabilities
- Systems enabling deep targets drillings (MPD ready)



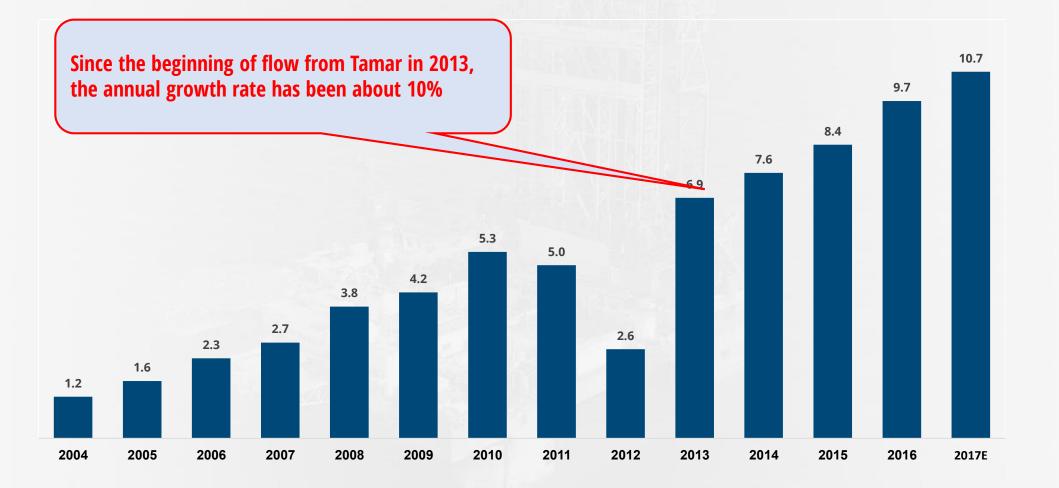
Domestic Gas Market Outlook





Domestic Market Gas Consumption

Israel Actual Gas Consumption (2004-2017) bcm/y





Domestic Market Limited Supply

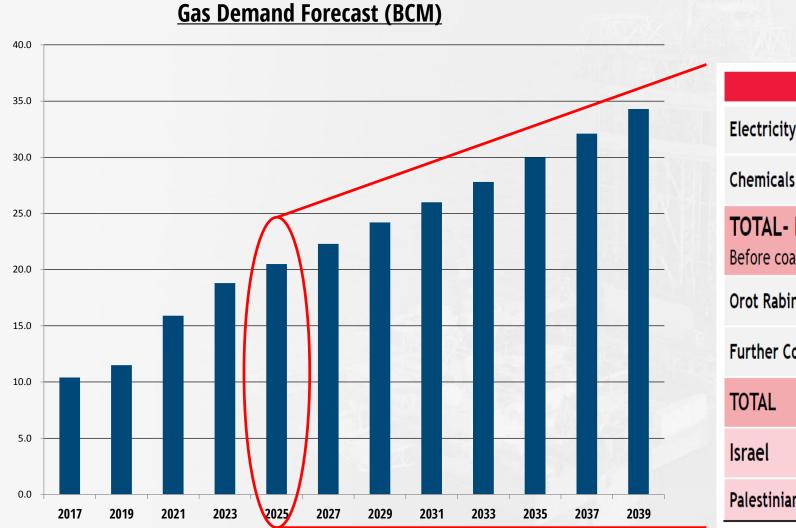
Gas demand is constrained by Tamar capacity

With Leviathan on stream a leap in demand for natural gas is expected from 2020, with the removal of this limitation and the entry of additional sources of gas

Gas Demand in <u>2016</u>	9.7	
Increase demand for electricity and cogeneration	2.4	Increase electricity demand and planed gas fired power generation
Further coal reduction	1.6	Rabin A shut-down based on MNI decision
Chemicals and CNG	0.3	Tax incentives and grants for CNG and transport
Medium and small industrial fuel replacement	0.3	Development and grants for distribution network
Expected demand in <u>2020</u>	<u>14.3</u>	
Source : BDO		



Domestic Demand Forecast Growth



Demand in 2025 – BDO VS NGA

Sector	BDO	NGA	
Electricity & Industry	14.9	13	
Chemicals & CNG	2	1.7	
TOTAL- Israel Before coal reduction	15.2	14.7	O. BC
Orot Rabin 1-4 shut down	1.6	-	
Further Coal reduction	2.0	-	
TOTAL	20.5	14.7	
Israel	18.8	14.7	
Palestinians	1.7	Not Included	

Source : BDO

Gas Market Revolution

- Electricity generated by gas is expected to triple by 2040 and will represent 85% of total electricity generated according to Ministry of energy and water publications
- □ The consumption of coal (as of 2016) is equivalent to about 5 bcm per year
- Assuming complete production of natural gas without coal, gas consumption would now stand at about 15 bcm per year
- Continuous decline in the volume of electricity production by coal, which may continue to decrease from 2020 onwards, in accordance with government policy

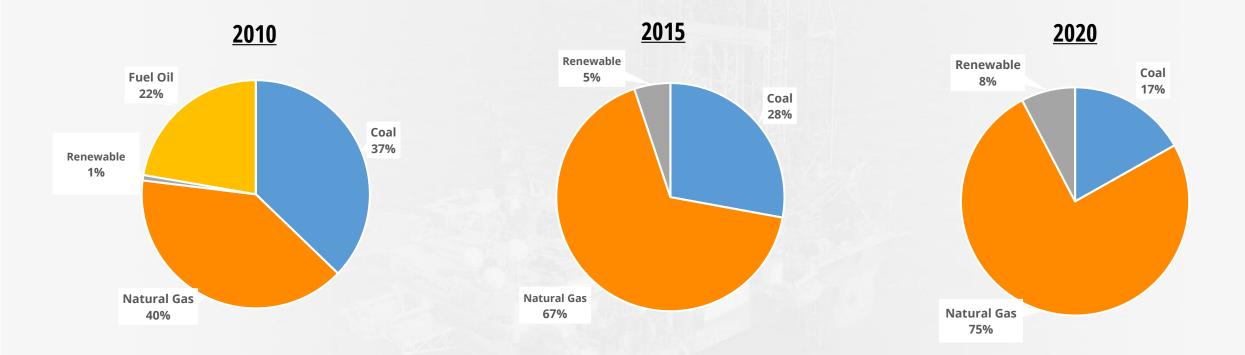


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Source : BDO, IEC, DD estimates

Growing domestic gas market

Electricity production capacity, historical development and expected capacity by type of fuel:



Source : IEC, BDO estimates

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Coal Reduction Economic



Over supply of natural gas is not consistent with continued coal electricity production

	GAS	COAL
Fuel Price (\$/mmbtu)	4.7 \$/mmbtu	3.2 \$/mmbtu (77 \$/ton)
Energy Efficiency	58%	39%
Cost of energy in the production of electricity	3.2 Cent/kWh	3.3 Cent/kWh
Government Take	60%	10% (Blo)
cost of energy in the production of electricity - to the national economy (without environmental influences)	1.3 \$/mmbtu	2.9 \$/mmbtu

Growing domestic gas market



Increased electricity demand	Driven mainly by population growth, increase in disposable income and real wage and growth in the use of electrical appliances Increased connectivity of industrial clients to the natural gas network
Change in electricity energy mix	More local clean gas, less imported polluting coal
Electrification of Israel's railway system	Complete shifting of the entire Israel Railways network from diesel to electricity fueled by gas
Chemical and petrochemical industries	Ammonia plant to potentially be established on the basis of domestic gas
Gas usage for transportation (CNG)	Expected CNG powered vehicles to penetrate into niche markets; electric vehicles and plug-in hybrids are also expected to enter the market, following global trends
Increased water desalination	Over time, the sole source of supplying increased demand for water in Israel is through desalination of seawater, a process that is energy intensive

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Additional Demand Factors in Process

Additional Possible Demand Factors- <u>Aluminum</u>

- <u>Aluminum advantage</u>
 - Light
 - Hard
 - Don't rust
- <u>Aluminum usage</u>
 - Transportation Engines, car parts, aircraft parts
 - Construction profiles, lintels, windows, fences
 - Consumer Products Disposable Products, Packaging
 - Heat exchangers computers and electrical products
 - Missiles, vessels, bicycles



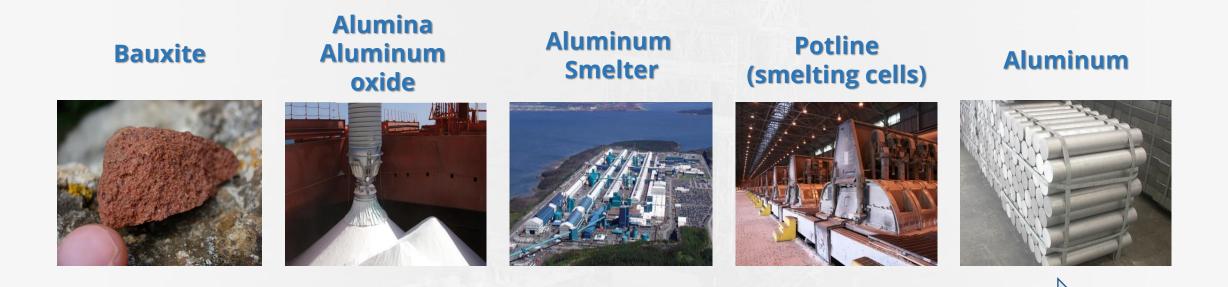








Additional Possible Demand Factors- <u>Aluminum</u>



The production of aluminum is characterized by high energy consumption, alongside a relatively large number of workers

Additional Possible Demand Factors- <u>Aluminum</u>



Delek Drilling is exploring to promote an aluminum plant in Israel

- World annual consumption of Aluminum is 59mm tons in 2016, Market average growth rate of
 6.5% per annum
- □ Israel currently consumes about 50,000 tons of aluminum
- Most of the primary aluminum in Israel is used to manufacture profiles and components for the construction industry
- □ Israel is surrounded by regional demand of more than 2 million tons Turkey about 1.1 million tons per year, Italy about 900 thousand tons per year, Greece about 200 thousand tons per year
- □ Aluminum plat will Increase in the use of natural gas in the amount of 0.7-2.0 bcm/y

Additional Possible Demand Factors- Transportation

Delek Drilling and Gazprom signed a non-binding MOU for jointly examination of possibilities of using natural gas as a fuel for transportation







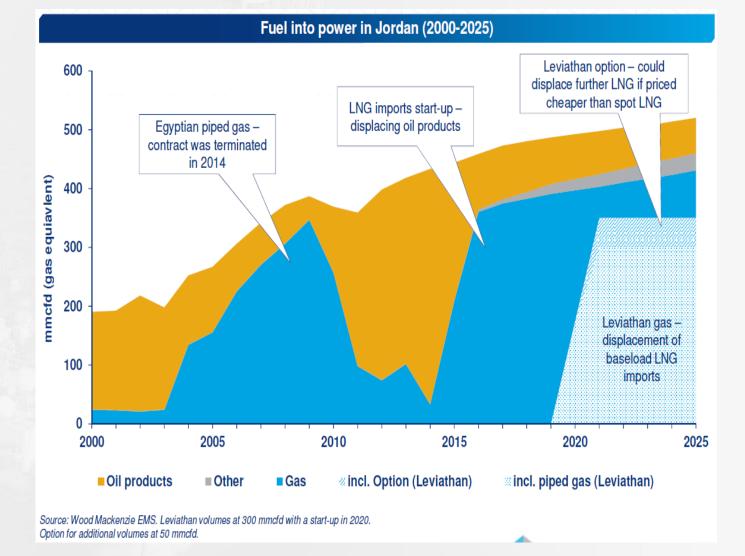
Unlocking Regional Markets





Jordan Gas Demand

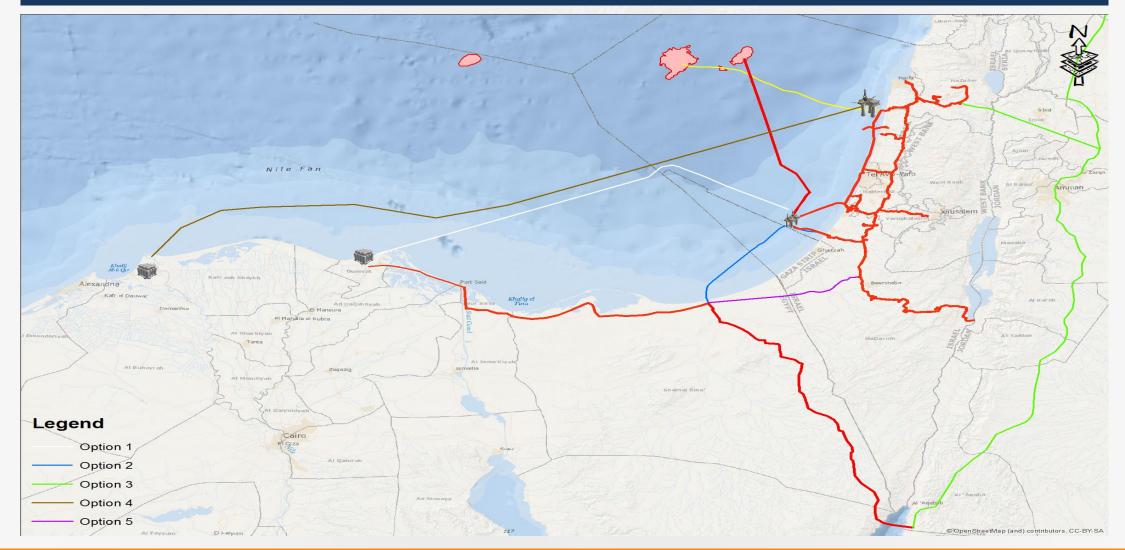
- □ 97% of Jordan energy is imported
- Natural gas is responsible for 80% of power generation
- Gas demand in 2017 is expected to reach 3.5-4.0 bcm, all of which imported LNG
- Fuel to power consumption represent demand of ~5 bcm
- INGL enlarged the originally designed pipeline



Regional Infrastructure Solution



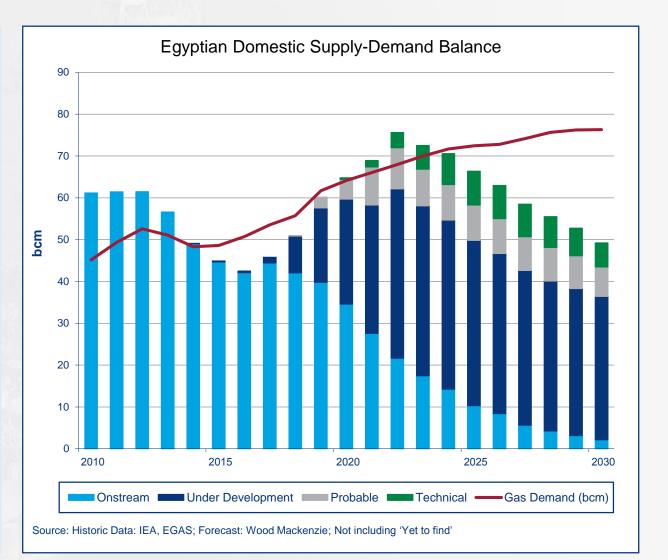
Regional market access via multiple infrastructure entry options solutions





Egypt – Supply Demand Imbalance

- Significant consumption of over 50 bcm/y, and increasing by Approx. 8% year on year
- Additional gas is required for two existing LNG facilities, consuming approx. 17 to 20 bcm/y
- Egypt is fast tracking new developments such as West Nile Delta and Zohr to restore supply, but is short of gas even if the latter is over 22.5 tcf recoverable
- <u>Government of Egypt recognize the gas shortage and</u> recently amended the law to allow the private sector in Egypt to directly trade gas using the pipeline and network infrastructure. This opens the door for the import of gas to Egypt



Source: Wood Mackenzie

Sea of Demand







Delek Drilling Financial Strength

Robust Dividend Distribution



Cash dividend of c. \$1.5B in last years



- Dividend payment of Delek Drilling and Avner combined
- Not include tax advances in the amount \$300 mm between the years 2015-2017

Thank You

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